

PF-0701 USA

SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.

TANG, Y. Tom  
YUE, Henry  
LAL, Preeti  
BURFORD, Neil  
BANDMAN, Olga  
BAUGHN, Mariah R.  
AZIMZAI, Yalda  
LU, Dyung Aina M.  
PATTERSON, Chandra

<120> EXTRACELLULAR SIGNALING MOLECULES

<130> PF-0701 USA

<140> To Be Assigned

<141> Herewith

<150> 60/134,949; 60/144,270; 60/146,700; 60/157,508

<151> 1999-05-19; 1999-07-15; 1999-07-30; 1999-10-04

<160> 55

<170> PERL Program

<210> 1

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1288847CD1

<400> 1

Met	Gly	Lys	Glu	Trp	Val	Lys	Ile	Leu	Leu	Phe	Leu	Leu	His	Leu
1														15
Ser	Asn	Phe	Phe	Thr	Ile	Val	Thr	Phe	Leu	Gly	Ser	Gln	Gly	Leu
														30
Leu	Gln	Ser	Pro	Ser	Tyr	Glu	Lys	Leu	Val	Gly	Cys	Cys	Leu	Met
														45
Thr	Arg	Gly	Cys	Phe	Ser	Pro	Ser	Val	Met	Leu	Pro	Ser	Ala	Ala
														60
Pro	Ser	Gln	Gln	Asp	Ser	Pro	Ser	His	Ser	Arg	Ala	Pro	Gly	Pro
														75
Cys	Ser													

<210> 2

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

PF-0701 USA

<223> Incyte ID No: 1329044CD1

<400> 2

Met Lys Thr Pro Asn Asp Leu Phe Leu Arg Gln Leu Gly Tyr Leu			
1	5	10	15
Ser Ile Cys Cys Phe Val Phe Ser Ser Glu Glu Ser Lys Asn Tyr			
20	25	30	
Lys Ile Ser Leu Ile Val Tyr Leu Thr Phe Leu Thr Met Glu Thr			
35	40	45	
Lys Pro Arg Asn Ser Ile Tyr Ser Val Leu Thr Gln Ser Thr His			
50	55	60	
Pro Asp Phe Glu Ser Pro Arg Thr Gly Val Pro Asn Pro Arg Ala			
65	70	75	
Glu Asp Gln Tyr Gln Phe Glu Ala Tyr Tyr Arg Val Thr			
80	85		

<210> 3

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1493630CD1

<400> 3

Met Ser Met Gln Phe Leu Phe Lys Met Val Ala Leu Cys Cys Cys			
1	5	10	15
Leu Trp Lys Ile Ser Gly Cys Glu Glu Val Pro Leu Thr Tyr Asn			
20	25	30	
Leu Leu Lys Cys Leu Leu Asp Lys Ala His Cys Val Leu Leu Thr			
35	40	45	
Pro Cys Gly Tyr Ile Phe Ser Leu Ile Ser Pro Glu Ile Leu Lys			
50	55	60	
Leu Thr Leu Ile Thr Leu Gln Ile Leu Leu Ile Leu Lys Asn Leu			
65	70	75	
His Leu Leu Trp Leu Thr Val Ser Ser Arg Cys Val His Arg Ser			
80	85	90	
Ser Ala Arg Lys Glu Lys			
95			

<210> 4

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1533041CD1

<400> 4

Met Arg Leu Ser Leu Pro Leu Gly Ser Leu Leu Trp Pro Phe Leu			
1	5	10	15
Val Cys Gly Cys Leu Leu Gln Val Ala Leu Cys Gln Thr Arg Ser			
20	25	30	
Ala Pro His Leu Asp Thr His Ser Pro Val Ala Phe Gln Cys Ser			

PF-0701 USA

35 40 45  
Gly Arg Lys Pro Val Ser Leu Asp Val Lys Leu Thr Leu Met Gly  
50 55 60  
Trp Gly Arg Gly Leu Gly Arg Arg Gly Gly Arg Gly Glu Gly Thr  
65 70 75  
Glu Leu Arg Ile Ser Trp Ser Ala Leu Gln Ala Gln Arg Arg Ser  
80 85 90  
Ala Lys Val Leu Asn Arg Phe Ser Leu Glu Ile Lys Asn Pro  
95 100

<210> 5

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1566162CD1

<400> 5

Met Leu Met Phe Ile Lys Gly Leu Ser Ser Thr Leu Phe Leu Gly  
1 5 10 15  
Ser Thr Leu Ser His Arg Asp Pro Ile Cys Phe Tyr Ser Phe His  
20 25 30  
Phe His Leu Tyr Leu Leu Pro His Ala Val Ser Pro Val Thr Asn  
35 40 45  
Ser Ile Tyr Asn Tyr Leu Leu Gly Leu Tyr Leu Asp Thr Cys Thr  
50 55 60

<210> 6

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1811831CD1

<400> 6

Met Pro Lys Ser Gln Ser His His Leu Thr Gln Leu Gln Leu Leu  
1 5 10 15  
Pro Ser Cys Leu Leu Gly Leu Leu Pro Pro Val Pro Ala Val His  
20 25 30  
Ala Tyr Ile Leu Gln Gly Cys Val Leu Ser Gly Arg Glu Ile Phe  
35 40 45  
Phe Ser Val Leu Gln Phe Phe Thr Gln Thr Phe Ser Phe Val Val  
50 55 60  
Pro Val Phe Pro Ser Phe Pro Gly Gly Phe Arg Leu Pro Phe Ser  
65 70 75  
Ser Pro Trp Leu Ser Leu Cys Pro Ile His Arg Ser Thr Leu Gln  
80 85 90  
Ala Cys Leu Tyr Glu Arg Gly Leu Phe Leu Cys Arg Lys Leu Thr  
95 100 105  
Leu Thr Arg Cys Gly Cys Ser Tyr Thr Asp Leu Ile  
110 115

PF-0701 USA

<210> 7

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1835447CD1

<400> 7

Met Arg Ala Lys Gly Phe Leu Ala Pro Ser Leu Val Leu Ala Val  
1 5 10 15

Ser Leu Glu Leu Met His Pro Asp Ala Asn Ser Pro Ser Glu Cys  
20 25 30

Arg Gly Asp Glu Thr Leu Thr Gly Gln Phe Asn Leu Tyr Met Gly  
35 40 45

Asp Lys Leu Glu Gly Lys Thr Asn Gly Arg Arg Val Lys Arg Lys  
50 55 60

Leu Asn Tyr Cys Ala Asn Thr Arg His Ser Asn Pro Gly Gly Tyr  
65 70 75

Cys Arg Val Asn Asn Asp Arg Tyr Tyr Phe Val  
80 85

<210> 8

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3892281CD1

<400> 8

Met Arg Cys Arg Leu Leu Ala Gly Ala Leu Val Leu Leu His Leu  
1 5 10 15

Arg Leu Ser Ile Trp Leu Leu Gly Leu Pro His Ser Met Ala Asp  
20 25 30

Gly Leu Arg Glu Gly Ala Phe Pro Asn Lys Gly Pro His Lys Leu  
35 40 45

Asp Leu Trp Arg Ala Ser Leu Arg Ser His Pro Val Ser His Gly  
50 55 60

Pro His Phe Ile Gly Tyr Arg Ala Ser Gln Phe Glu Gly Glu Glu  
65 70 75

Lys Tyr Val Ala Val Tyr Ala Val Ser Ser Ala Ser Leu Leu Pro  
80 85 90

Ala Leu Pro Val Pro Val Leu Arg Ala Ala Leu Ala Glu Gln Met  
95 100 105

Tyr Leu Leu Ser

<210> 9

<211> 111

<212> PRT

<213> Homo sapiens

<220>

PF-0701 USA

<221> misc\_feature

<223> Incyte ID No: 4318494CD1

<400> 9

Met	Arg	Ser	Pro	Ser	Phe	Pro	Phe	Thr	Leu	Leu	Ser	Gly	Leu	Pro
1									10					15
Gly	Pro	Gly	Phe	Ser	Gln	Leu	Cys	Val	Arg	Val	Ser	Gln	Val	Ser
					20				25					30
Arg	Asn	Pro	Met	Arg	Ser	Glu	Gly	Cys	Phe	Gly	Leu	Leu	Lys	Ser
					35				40					45
Val	Gln	Asp	Asn	Pro	Ala	Ser	Ala	Leu	Glu	Leu	Leu	Asp	Phe	Ser
					50				55					60
Asp	Ile	Gln	Val	Asn	Ala	Glu	Phe	Asp	Gly	Leu	Ala	Ser	Ser	Val
					65				70					75
Arg	Gly	Ile	Leu	Pro	Glu	Leu	Cys	Ile	Lys	Thr	Gly	Ala	Cys	Arg
					80				85					90
Val	Glu	Tyr	Lys	Lys	Glu	Leu	Leu	Pro	Val	Phe	Arg	Ser	Ala	Leu
					95				100					105
Pro	Ala	Ser	Val	Pro	Lys									
					110									

<210> 10

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5090841CD1

<400> 10

Met	Glu	Pro	Gln	Leu	Gly	Pro	Glu	Ala	Ala	Ala	Leu	Arg	Pro	Gly
1									10					15
Trp	Leu	Ala	Leu	Leu	Leu	Trp	Val	Ser	Ala	Leu	Ser	Cys	Ser	Phe
									20					30
Ser	Leu	Pro	Ala	Ser	Ser	Leu	Ser	Ser	Leu	Val	Pro	Gln	Val	Arg
									35					45
Thr	Ser	Tyr	Asn	Phe	Gly	Arg	Thr	Phe	Leu	Gly	Leu	Asp	Lys	Cys
									50					60
Asn	Ala	Cys	Ile	Gly	Thr	Ser	Ile	Cys	Lys	Lys	Phe	Phe	Lys	Glu
									65					75
Glu	Ile	Arg	Ser	Asp	Asn	Trp	Leu	Ala	Ser	His	Leu	Gly	Leu	Pro
									80					90
Pro	Asp	Ser	Leu	Leu	Ser	Tyr	Pro	Ala	Asn	Tyr	Ser	Asp	Asp	Ser
									95					105
Lys	Ile	Trp	Arg	Pro	Val	Glu	Ile	Phe	Arg	Leu	Val	Ser	Lys	Tyr
									110					120
Gln	Asn	Glu	Ile	Ser	Asp	Arg	Arg	Ile	Cys	Ala	Ser	Ala	Ser	Ala
									125					135
Pro	Lys	Thr	Cys	Ser	Ile	Glu	Arg	Val	Leu	Arg	Lys	Thr	Glu	Arg
									140					150
Phe	Gln	Lys	Trp	Leu	Gln	Ala	Lys	Arg	Leu	Thr	Pro	Asp	Leu	Val
									155					165
Gln	Asp	Cys	His	Gln	Gly	Gln	Arg	Glu	Leu	Lys	Phe	Leu	Cys	Met
									170					180
									175					

PF-0701 USA

Leu Arg

<210> 11  
<211> 105

<212> PRT

<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2006548CD1

<400> 11

Met	Arg	Gly	Ala	Thr	Arg	Val	Ser	Ile	Met	Leu	Leu	Leu	Val	Thr
1						5			10				15	
Val	Ser	Asp	Cys	Ala	Val	Ile	Thr	Gly	Ala	Cys	Glu	Arg	Asp	Val
						20			25				30	
Gln	Cys	Gly	Ala	Gly	Thr	Cys	Cys	Ala	Ile	Ser	Leu	Trp	Leu	Arg
						35			40				45	
Gly	Leu	Arg	Met	Cys	Thr	Pro	Leu	Gly	Arg	Glu	Gly	Glu	Glu	Cys
						50			55				60	
His	Pro	Gly	Ser	His	Lys	Val	Pro	Phe	Phe	Arg	Lys	Arg	Lys	His
						65			70				75	
His	Thr	Cys	Pro	Cys	Leu	Pro	Asn	Leu	Leu	Cys	Ser	Arg	Phe	Pro
						80			85				90	
Asp	Gly	Arg	Tyr	Arg	Cys	Ser	Met	Asp	Leu	Lys	Asn	Ile	Asn	Phe
						95			100				105	

<210> 12  
<211> 342

<212> PRT

<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2207183CD1

<400> 12

Met	Glu	Gly	Pro	Glu	Phe	Leu	Arg	Thr	Ala	Thr	Ser	Ala	Ser	Gly
1						5			10				15	
Arg	Gly	Glu	His	Arg	Ala	Glu	Gly	Val	Cys	Ser	Arg	Leu	Arg	Glu
						20			25				30	
Ala	Ala	Arg	Arg	Arg	Gly	Arg	Pro	Ser	Leu	Lys	Gly	Lys	Arg	Lys
						35			40				45	
Arg	Gly	Ser	Ala	Ser	Ile	Pro	Glu	Arg	Gly	Leu	Gly	Arg	Met	Lys
						50			55				60	
Thr	Ser	Ala	Glu	Leu	His	Glu	Gln	Glu	Lys	Pro	Pro	Ser	Ser	Pro
						65			70				75	
Arg	Ala	Thr	Gly	Pro	Gly	Arg	Leu	Gly	His	Ala	Arg	Gly	Arg	Gly
						80			85				90	
Pro	Asp	Ala	Leu	Arg	Gly	Gly	Ala	Ala	Gly	Pro	Gly	Arg	Ala	Ser
						95			100				105	
Ser	Gly	Ala	Pro	Arg	Glu	Arg	Lys	Met	Ala	Pro	His	Gly	Pro	Gly
						110			115				120	
Ser	Leu	Thr	Thr	Leu	Val	Pro	Trp	Ala	Ala	Leu	Leu	Leu	Ala	

125	130	135
Leu Gly Val Glu Arg Ala Leu Ala Leu Prc	Glu Ile Cys Thr Gln	
140	145	150
Cys Pro Gly Ser Val Gln Asn Leu Ser	Lys Val Ala Phe Tyr Cys	
155	160	165
Lys Thr Thr Arg Glu Leu Met Leu His	Ala Arg Cys Cys Leu Asn	
170	175	180
Gln Lys Gly Thr Ile Leu Gly Leu Asp	Leu Gln Asn Cys Ser Leu	
185	190	195
Glu Asp Pro Gly Pro Asn Phe His Gln	Ala His Thr Thr Val Ile	
200	205	210
Ile Asp Leu Gln Ala Asn Pro Leu Lys	Gly Asp Leu Ala Asn Thr	
215	220	225
Phe Arg Gly Phe Thr Gln Leu Gln Thr	Leu Ile Leu Pro Gln His	
230	235	240
Val Asn Cys Pro Gly Gly Ile Asn Ala	Trp Asn Thr Ile Thr Ser	
245	250	255
Tyr Ile Asp Asn Gln Ile Cys Gln Gly	Gln Lys Asn Leu Cys Asn	
260	265	270
Asn Thr Gly Asp Pro Glu Met Cys Pro	Glu Asn Gly Ser Cys Val	
275	280	285
Pro Asp Gly Pro Gly Leu Leu Gln Cys	Val Cys Ala Asp Gly Phe	
290	295	300
His Gly Tyr Lys Cys Met Arg Gln Gly	Ser Phe Ser Leu Leu Met	
305	310	315
Phe Phe Gly Ile Leu Gly Ala Thr Thr	Leu Ser Val Ser Ile Leu	
320	325	330
Leu Trp Ala Thr Gln Arg Arg Lys Ala	Lys Thr Ser	
335	340	

&lt;210&gt; 13

&lt;211&gt; 451

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2267403CD1

&lt;400&gt; 13

Met Val Pro Glu Val Arg Val Leu Ser Ser	Leu Leu Gly Leu Ala	
1	5	10
Leu Leu Trp Phe Pro Leu Asp Ser His	Ala Arg Ala Arg Pro Asp	
20	25	30
Met Phe Cys Leu Phe His Gly Lys Arg	Tyr Ser Pro Gly Glu Ser	
35	40	45
Trp His Pro Tyr Leu Glu Pro Gln Gly	Leu Met Tyr Cys Leu Arg	
50	55	60
Cys Thr Cys Ser Glu Gly Ala His Val	Ser Cys Tyr Arg Leu His	
65	70	75
Cys Pro Pro Val His Cys Pro Gln Pro	Val Thr Glu Pro Gln Gln	
80	85	90
Cys Cys Pro Lys Cys Val Glu Pro His	Thr Pro Ser Gly Leu Arg	
95	100	105
Ala Pro Pro Lys Ser Cys Gln His Asn	Gly Thr Met Tyr Gln His	

	110	115	120											
Gly	Glu	Ile	Phe	Ser	Ala	His	Glu	Leu	Phe	Pro	Ser	Arg	Leu	Pro
		125			130								135	
Asn	Gln	Cys	Val	Leu	Cys	Ser	Cys	Thr	Glu	Gly	Gln	Ile	Tyr	Cys
		140			145								150	
Gly	Leu	Thr	Thr	Cys	Pro	Glu	Pro	Gly	Cys	Pro	Ala	Pro	Leu	Pro
		155			160								165	
Leu	Pro	Asp	Ser	Cys	Cys	Gln	Ala	Cys	Lys	Asp	Glu	Ala	Ser	Glu
		170			175								180	
Gln	Ser	Asp	Glu	Glu	Asp	Ser	Val	Gln	Ser	Leu	His	Gly	Val	Arg
		185			190								195	
His	Pro	Gln	Asp	Pro	Cys	Ser	Ser	Asp	Ala	Gly	Arg	Lys	Arg	Gly
		200			205								210	
Pro	Gly	Thr	Pro	Ala	Pro	Thr	Gly	Leu	Ser	Ala	Pro	Leu	Ser	Phe
		215			220								225	
Ile	Pro	Arg	His	Phe	Arg	Pro	Lys	Gly	Ala	Gly	Ser	Thr	Thr	Val
		230			235								240	
Lys	Ile	Val	Leu	Lys	Glu	Lys	His	Lys	Lys	Ala	Cys	Val	His	Gly
		245			250								255	
Gly	Lys	Thr	Tyr	Ser	His	Gly	Glu	Val	Trp	His	Pro	Ala	Phe	Arg
		260			265								270	
Ala	Phe	Gly	Pro	Leu	Pro	Cys	Ile	Leu	Cys	Thr	Cys	Glu	Asp	Gly
		275			280								285	
Arg	Gln	Asp	Cys	Gln	Arg	Val	Thr	Cys	Pro	Thr	Glu	Tyr	Pro	Cys
		290			295								300	
Arg	His	Pro	Glu	Lys	Val	Ala	Gly	Lys	Cys	Cys	Lys	Ile	Cys	Pro
		305			310								315	
Glu	Asp	Lys	Ala	Asp	Pro	Gly	His	Ser	Glu	Ile	Ser	Ser	Thr	Arg
		320			325								330	
Cys	Pro	Lys	Ala	Pro	Gly	Arg	Val	Leu	Val	His	Thr	Ser	Val	Ser
		335			340								345	
Pro	Ser	Pro	Asp	Asn	Leu	Arg	Arg	Phe	Ala	Leu	Glu	His	Glu	Ala
		350			355								360	
Ser	Asp	Leu	Val	Glu	Ile	Tyr	Leu	Trp	Lys	Leu	Val	Lys	Asp	Glu
		365			370								375	
Glu	Thr	Glu	Ala	Gln	Arg	Gly	Glu	Val	Pro	Gly	Pro	Arg	Pro	His
		380			385								390	
Ser	Gln	Asn	Leu	Pro	Leu	Asp	Ser	Asp	Gln	Glu	Ser	Gln	Glu	Ala
		395			400								405	
Arg	Leu	Pro	Glu	Arg	Gly	Thr	Ala	Leu	Pro	Thr	Ala	Arg	Trp	Pro
		410			415								420	
Pro	Arg	Arg	Ser	Leu	Glu	Arg	Leu	Pro	Ser	Pro	Asp	Pro	Gly	Ala
		425			430								435	
Glu	Gly	His	Gly	Gln	Ser	Arg	Gln	Ser	Asp	Gln	Asp	Ile	Thr	Lys
		440			445								450	
Thr														

<210> 14  
<211> 189  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature

PF-0701 USA

<223> Incyte ID No: 2933038CD1

<400> 14

Met Leu Gly Ser Arg Ala Val Met Leu Leu Leu Leu Pro Trp  
1 5 10 15  
Thr Ala Gln Gly Arg Ala Val Pro Gly Gly Ser Ser Pro Ala Trp  
20 25 30  
Thr Gln Cys Gln Gln Leu Ser Gln Lys Leu Cys Thr Leu Ala Trp  
35 40 45  
Ser Ala His Pro Leu Val Gly His Met Asp Leu Arg Glu Glu Gly  
50 55 60  
Asp Glu Glu Thr Thr Asn Asp Val Pro His Ile Gln Cys Gly Asp  
65 70 75  
Gly Cys Asp Pro Gln Gly Leu Arg Asp Asn Ser Gln Phe Cys Leu  
80 85 90  
Gln Arg Ile His Gln Gly Leu Ile Phe Tyr Glu Lys Leu Leu Gly  
95 100 105  
Ser Asp Ile Phe Thr Gly Glu Pro Ser Leu Leu Pro Asp Ser Pro  
110 115 120  
Val Gly Gln Leu His Ala Ser Leu Leu Gly Leu Ser Gln Leu Leu  
125 130 135  
Gln Pro Glu Gly His His Trp Glu Thr Gln Gln Ile Pro Ser Leu  
140 145 150  
Ser Pro Ser Gln Pro Trp Gln Arg Leu Leu Leu Arg Phe Lys Ile  
155 160 165  
Leu Arg Ser Leu Gln Ala Phe Val Ala Val Ala Ala Arg Val Phe  
170 175 180  
Ala His Gly Ala Ala Thr Leu Ser Pro  
185

<210> 15

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3216587CD1

<400> 15

Met Gly Ala Val Met Gly Thr Phe Ser Ser Leu Gln Thr Lys Gln  
1 5 10 15  
Arg Arg Pro Ser Lys Asp Lys Ile Glu Asp Glu Leu Glu Met Thr  
20 25 30  
Met Val Cys His Arg Pro Glu Gly Leu Glu Gln Leu Glu Ala Gln  
35 40 45  
Thr Asn Phe Thr Lys Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe  
50 55 60  
Lys Asn Glu Cys Pro Ser Gly Val Val Asn Glu Asp Thr Phe Lys  
65 70 75  
Gln Ile Tyr Ala Gln Phe Phe Pro His Gly Asp Ala Ser Thr Tyr  
80 85 90  
Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr Gln Thr Gly Ser  
95 100 105  
Val Lys Phe Glu Asp Phe Val Thr Ala Leu Ser Ile Leu Leu Arg

PF-0701 USA

110	115	120
Gly Thr Val His Glu Lys Leu Arg Trp	Thr Phe Asn Leu Tyr Asp	
125	130	135
Ile Asn Lys Asp Gly Tyr Ile Asn Lys	Glu Glu Met Met Asp Ile	
140	145	150
Val Lys Ala Ile Tyr Asp Met Met Gly	Lys Tyr Thr Tyr Pro Val	
155	160	165
Leu Lys Glu Asp Thr Pro Arg Gln His	Val Asp Val Phe Phe Gln	
170	175	180
Lys Met Asp Lys Asn Lys Asp Gly Ile	Val Thr Leu Asp Glu Phe	
185	190	195
Leu Glu Ser Cys Gln Glu Asp Asp Asn	Ile Met Arg Ser Leu Gln	
200	205	210
Leu Phe Gln Asn Val Met		
215		

<210> 16

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5037143CD1

<400> 16

Met Ala Ala Ala Arg Leu Cys Leu Ser Leu Leu Leu Ser Thr		
1	5	10
Cys Val Ala Leu Leu Leu Gln Pro Leu Leu Gly Ala Gln Gly Ala		
20	25	30
Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln		
35	40	45
Met Ala Gln Tyr Ala Ala Asp Leu Arg Arg Tyr Ile Asn Met Leu		
50	55	60
Thr Arg Pro Arg Cys Val Pro Gln Leu Gly Arg Glu Ile Pro Ala		
65	70	75
Pro Gly Thr Leu Gly Pro Leu His Ile Pro Gly His Thr Leu Ser		
80	85	90
Pro Ala Pro Ala Pro Ala Pro Ser Arg Pro Ala Leu Gly Lys Thr		
95	100	105
Gly His Leu Cys Ser Thr Gly Leu Asp Gln Cys Ala Leu Gly Lys		
110	115	120
Met Val Pro Thr Gly Arg Tyr Glu Thr Gly Gly Leu Ala Pro Gly		
125	130	135
His Ser Ala Cys Pro Cys Cys Leu Phe Pro Pro Arg Tyr Gly Lys		
140	145	150
Arg His Lys Glu Asp Thr Leu Ala Phe Ser Glu Trp Gly Ser Pro		
155	160	165
His Ala Ala Val Pro Arg Glu Leu Ser Pro Leu Asp Leu		
170	175	

<210> 17

<211> 177

<212> PRT

<213> Homo sapiens

PF-0701 USA

<220>

<221> misc\_feature

<223> Incyte ID No: 1235265CD1

<400> 17

Met Glu Pro Gly Asn Arg Ser Leu Asn Pro His Lys Thr Lys His  
1 5 10 15  
His Met Glu Cys Arg Val Thr Gly Arg Ala Glu Val Thr Ala Ser  
20 25 30  
Arg Glu Gly Arg Gly Ala Cys Ala Trp Glu Cys Gly Ser Ser Arg  
35 40 45  
Gly Pro Trp Gly Leu Leu Arg Tyr Thr Phe Ala Pro Val Arg Ala  
50 55 60  
Ser Arg Pro Trp Ala Cys Leu Pro Lys Gly Ser Leu Ser Gln Arg  
65 70 75  
Pro Lys Leu Pro Pro Val His Leu Pro Pro Lys Ser Ser Cys  
80 85 90  
Pro Pro Arg Ala Gly Gly Gly Ala Gln Gly Arg Gly Val Pro  
95 100 105  
Cys Thr Tyr Leu Ser Pro Leu Ser His Ser Pro Lys Thr Phe Cys  
110 115 120  
Thr Phe Leu Gln Gly Cys Pro Ser Gln Gln Phe Pro Ser Trp Leu  
125 130 135  
Ile Lys Pro Ser Asp Trp Cys Cys Val Pro Ser Leu Trp Pro Leu  
140 145 150  
Cys Gly Glu Arg Gly Leu Gln Gly Glu Pro Gly Arg Asp Ser  
155 160 165  
Gln Ala Ser Pro Trp Glu Gly Gly Ala Ser Arg Arg  
170 175

<210> 18

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5571181CD1

<400> 18

Met Ala Ala Leu Gln Lys Ser Val Ser Ser Phe Leu Met Gly Thr  
1 5 10 15  
Leu Ala Thr Ser Cys Leu Leu Leu Ala Leu Leu Val Gln Gly  
20 25 30  
Gly Ala Ala Ala Pro Ile Ser Ser His Cys Arg Leu Asp Lys Ser  
35 40 45  
Asn Phe Gln Gln Pro Tyr Ile Thr Asn Arg Thr Phe Met Leu Ala  
50 55 60  
Lys Glu Ala Ser Leu Ala Asp Asn Asn Thr Asp Val Arg Leu Ile  
65 70 75  
Gly Glu Lys Leu Phe His Gly Val Ser Met Ser Glu Arg Cys Tyr  
80 85 90  
Leu Met Lys Gln Val Leu Asn Phe Thr Leu Glu Glu Val Leu Phe  
95 100 105  
Pro Gln Ser Asp Arg Phe Gln Pro Tyr Met Gln Glu Val Val Pro

PF-0701 USA

110	115	120
Phe Leu Ala Arg Leu Ser Asn Arg Leu Ser Thr Cys His Ile Glu		
125	130	135
Gly Asp Asp Leu His Ile Gln Arg Asn Val Gln Lys Leu Lys Asp		
140	145	150
Thr Val Lys Lys Leu Gly Glu Ser Gly Glu Ile Lys Ala Ile Gly		
155	160	165
Glu Leu Asp Leu Leu Phe Met Ser Leu Arg Asn Ala Cys Ile		
170	175	

<210> 19

<211> 213

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 685374CD1

<400> 19

Met Ala Leu Leu Arg Lys Ser Tyr Ser Glu Pro Gln Leu Lys Gly		
1	5	10
Ile Val Thr Lys Leu Tyr Ser Arg Gln Gly Tyr His Leu Gln Leu		
20	25	30
Gln Ala Asp Gly Thr Ile Asp Gly Thr Lys Asp Glu Asp Ser Thr		
35	40	45
Tyr Thr Leu Phe Asn Leu Ile Pro Val Gly Leu Arg Val Val Ala		
50	55	60
Ile Gln Gly Val Gln Thr Lys Leu Tyr Leu Ala Met Asn Ser Glu		
65	70	75
Gly Tyr Leu Tyr Thr Ser Glu Leu Phe Thr Pro Glu Cys Lys Phe		
80	85	90
Lys Glu Ser Val Phe Glu Asn Tyr Tyr Val Thr Tyr Ser Ser Met		
95	100	105
Ile Tyr Arg Gln Gln Ser Gly Arg Gly Trp Tyr Leu Gly Leu		
110	115	120
Asn Lys Glu Gly Glu Ile Met Lys Gly Asn His Val Lys Lys Asn		
125	130	135
Lys Pro Ala Ala His Phe Leu Pro Lys Pro Leu Lys Val Ala Met		
140	145	150
Tyr Lys Glu Pro Ser Leu His Asp Leu Thr Glu Phe Ser Arg Ser		
155	160	165
Gly Ser Gly Thr Pro Thr Lys Ser Arg Ser Val Ser Gly Val Leu		
170	175	180
Asn Gly Gly Lys Ser Met Ser His Asn Glu Ser Thr Pro Val Arg		
185	190	195
Ala Lys Glu Gly Leu Cys Asn Arg Thr Leu Pro Pro Gly Ala Val		
200	205	210

Glu Phe Phe

<210> 20

<211> 239

<212> PRT

<213> Homo sapiens

PF-0701 USA

<220>

<221> misc\_feature

<223> Incyte ID No: 843193CD1

<400> 20

Met Ala Ile Cys Pro Leu His Ser Ala Gly Gln Val Ala Cys Pro  
1 5 10 15  
His Tyr Ile His Leu Leu Thr Pro Leu Pro Trp Met Asp Gln Trp  
20 25 30  
Trp Cys His Pro Lys Gln Ile Asp Thr Ile Phe Pro Leu Val Thr  
35 40 45  
Ala Lys Gly Glu Asn His Pro Ser Pro Asn Phe Asn Gln Tyr Val  
50 55 60  
Arg Asp Gln Gly Ala Met Thr Asp Gln Leu Ser Arg Arg Gln Ile  
65 70 75  
Arg Glu Tyr Gln Leu Tyr Ser Arg Thr Ser Gly Lys His Val Gln  
80 85 90  
Val Thr Gly Arg Arg Ile Ser Ala Thr Ala Glu Asp Gly Asn Lys  
95 100 105  
Phe Ala Lys Leu Ile Val Glu Thr Asp Thr Phe Gly Ser Arg Val  
110 115 120  
Arg Ile Lys Gly Ala Glu Ser Glu Lys Tyr Ile Cys Met Asn Lys  
125 130 135  
Arg Gly Lys Leu Ile Gly Lys Pro Ser Gly Lys Ser Lys Asp Cys  
140 145 150  
Val Phe Thr Glu Ile Val Leu Glu Asn Asn Tyr Thr Ala Phe Gln  
155 160 165  
Asn Ala Arg His Glu Gly Trp Phe Met Ala Phe Thr Arg Gln Gly  
170 175 180  
Arg Pro Arg Gln Ala Ser Arg Ser Arg Gln Asn Gln Arg Glu Ala  
185 190 195  
His Phe Ile Lys Arg Leu Tyr Gln Gly Gln Leu Pro Leu Thr Asn  
200 205 210  
His Ala Glu Lys Gln Lys Gln Phe Glu Phe Val Gly Ser Ala Pro  
215 220 225  
Thr Arg Arg Ala Lys Arg Thr Arg Arg Pro Gln Pro Leu Thr  
230 235

<210> 21

<211> 493

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1359783CD1

<400> 21

Met Leu Lys Ala Leu Phe Leu Thr Met Leu Thr Leu Ala Leu Val  
1 5 10 15  
Lys Ser Gln Asp Thr Glu Glu Thr Ile Thr Tyr Thr Gln Cys Thr  
20 25 30  
Asp Gly Tyr Glu Trp Asp Pro Val Arg Gln Gln Cys Lys Asp Ile  
35 40 45  
Asp Glu Cys Asp Ile Val Pro Asp Ala Cys Lys Gly Gly Met Lys

50	55	60
Cys Val Asn His Tyr Gly Gly Tyr Leu Cys	Cys Leu Pro Lys Thr Ala	
65	70	75
Gln Ile Ile Val Asn Asn Glu Gln Pro Gln	Gln Glu Thr Gln Pro	
80	85	90
Ala Glu Gly Thr Ser Gly Ala Thr Thr Gly	Val Val Ala Ala Ser	
95	100	105
Ser Met Ala Thr Ser Gly Val Leu Pro Gly	Gly Gly Phe Val Ala	
110	115	120
Ser Ala Ala Ala Val Ala Gly Pro Glu Met	Gln Thr Gly Arg Asn	
125	130	135
Asn Phe Val Ile Arg Arg Asn Pro Ala Asp	Pro Gln Arg Ile Pro	
140	145	150
Ser Asn Pro Ser His Arg Ile Gln Cys Ala	Ala Gly Tyr Glu Gln	
155	160	165
Ser Glu His Asn Val Cys Gln Asp Ile Asp	Glu Cys Thr Ala Gly	
170	175	180
Thr His Asn Cys Arg Ala Asp Gln Val Cys	Ile Asn Leu Arg Gly	
185	190	195
Ser Phe Ala Cys Gln Cys Pro Pro Gly	Tyr Gln Lys Arg Gly Glu	
200	205	210
Gln Cys Val Asp Ile Asp Glu Cys Thr Ile	Pro Pro Tyr Cys His	
215	220	225
Gln Arg Cys Val Asn Thr Pro Gly Ser Phe	Tyr Cys Gln Cys Ser	
230	235	240
Pro Gly Phe Gln Leu Ala Ala Asn Asn Tyr	Thr Cys Val Asp Ile	
245	250	255
Asn Glu Cys Asp Ala Ser Asn Gln Cys Ala	Gln Gln Cys Tyr Asn	
260	265	270
Ile Leu Gly Ser Phe Ile Cys Gln Cys Asn	Gln Gly Tyr Glu Leu	
275	280	285
Ser Ser Asp Arg Leu Asn Cys Glu Asp Ile	Asp Glu Cys Arg Thr	
290	295	300
Ser Ser Tyr Leu Cys Gln Tyr Gln Cys Val	Asn Glu Pro Gly Lys	
305	310	315
Phe Ser Cys Met Cys Pro Gln Gly Tyr Gln	Val Val Arg Ser Arg	
320	325	330
Thr Cys Gln Asp Ile Asn Glu Cys Glu Thr	Thr Asn Glu Cys Arg	
335	340	345
Glu Asp Glu Met Cys Trp Asn Tyr His	Gly Gly Phe Arg Cys Tyr	
350	355	360
Pro Arg Asn Pro Cys Gln Asp Pro Tyr Ile	Leu Thr Pro Glu Asn	
365	370	375
Arg Cys Val Cys Pro Val Ser Asn Ala Met	Cys Arg Glu Leu Pro	
380	385	390
Gln Ser Ile Val Tyr Lys Tyr Met Ser Ile	Arg Ser Asp Arg Ser	
395	400	405
Val Pro Ser Asp Ile Phe Gln Ile Gln Ala	Thr Thr Ile Tyr Ala	
410	415	420
Asn Thr Ile Asn Thr Phe Arg Ile Lys Ser	Gly Asn Glu Asn Gly	
425	430	435
Glu Phe Tyr Leu Arg Gln Thr Ser Pro Val	Ser Ala Met Leu Val	
440	445	450
Leu Val Lys Ser Leu Ser Gly Pro Arg Glu	His Ile Val Asp Leu	

PF-0701 USA

455	460	465
Glu Met Leu Thr Val Ser Ser Ile Gly	Thr Phe Arg Thr Ser Ser	
470	475	480
Val Leu Arg Leu Thr Ile Ile Val Gly	Pro Phe Ser Phe	
485	490	

<210> 22  
<211> 121  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1440015CD1

<400> 22

Met Ala Arg Arg Ala Gly Gly Ala Arg Met Phe Gly Ser Leu Leu		
1 5 10 15		
Leu Phe Ala Leu Leu Ala Ala Gly Val Ala Pro Leu Ser Trp Asp		
20 25 30		
Leu Pro Glu Pro Arg Ser Arg Ala Ser Lys Ile Arg Val His Ser		
35 40 45		
Arg Gly Asn Leu Trp Ala Thr Gly His Phe Met Gly Lys Lys Ser		
50 55 60		
Leu Glu Pro Ser Ser Pro Ser Pro Leu Gly Thr Ala Pro His Thr		
65 70 75		
Ser Leu Arg Asp Gln Arg Leu Gln Leu Ser His Asp Leu Leu Gly		
80 85 90		
Ile Leu Leu Leu Lys Lys Ala Leu Gly Val Ser Ser Ala Ala Pro		
95 100 105		
His Pro Lys Ser Ser Thr Gly Gly Cys Trp Tyr Lys Tyr Leu Gln		
110 115 120		
Lys		

<210> 23  
<211> 116  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1652885CD1

<400> 23

Met Val Pro Gln Pro Pro Thr Thr Cys Pro Trp Lys Pro Val Pro		
1 5 10 15		
Ser Pro Cys Asp Leu Arg Val Gln Gly Ile Cys Pro Ser Ser Phe		
20 25 30		
Pro Asp Thr Pro Leu Ala Gln Glu Glu Asp Ser Glu Pro Leu Pro		
35 40 45		
Pro Gln Asp Ala Gln Thr Ser Gly Ser Leu Leu His Tyr Leu Leu		
50 55 60		
Gln Ala Met Glu Arg Pro Gly Arg Ser Gln Ala Phe Leu Phe Gln		
65 70 75		
Pro Gln Arg Phe Gly Arg Asn Thr Gln Gly Ser Trp Arg Asn Glu		

PF-0701 USA

80 85 90  
Trp Leu Ser Pro Arg Ala Gly Glu Gly Leu Asn Ser Gln Phe Trp  
95 100 105  
Ser Leu Ala Ala Pro Gln Arg Phe Gly Lys Lys  
110 115  
<210> 24  
<211> 136  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 4003984CD1

<400> 24  
Met Gln Arg Trp Thr Leu Trp Ala Ala Ala Phe Leu Thr Leu His  
1 5 10 15  
Ser Ala Gln Ala Phe Pro Gln Thr Asp Ile Ser Ile Ser Pro Ala  
20 25 30  
Leu Pro Glu Leu Pro Leu Pro Ser Leu Cys Pro Leu Phe Trp Met  
35 40 45  
Glu Phe Lys Gly His Cys Tyr Arg Phe Phe Pro Leu Asn Lys Thr  
50 55 60  
Trp Ala Glu Ala Asp Leu Tyr Cys Ser Glu Phe Ser Val Gly Arg  
65 70 75  
Lys Ser Ala Lys Leu Ala Ser Ile His Ser Trp Glu Glu Asn Val  
80 85 90  
Phe Val Tyr Asp Leu Val Asn Ser Cys Val Pro Gly Ile Pro Ala  
95 100 105  
Asp Val Trp Thr Gly Leu His Asp His Arg Gln Val Arg Lys Gln  
110 115 120  
Trp Pro Leu Gly Pro Leu Gly Ser Ser Ser Gln Asp Ser Ile Leu  
125 130 135  
Ile

<210> 25  
<211> 176  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 4365383CD1

<400> 25  
Met Asn Phe Val His Thr Ser Arg Lys Val Lys Ser Leu Asn Pro  
1 5 10 15  
Lys Lys Phe Ser Ile His Asp Gln Asp His Lys Val Leu Val Leu  
20 25 30  
Asp Ser Gly Asn Leu Ile Ala Val Pro Asp Lys Asn Tyr Ile Arg  
35 40 45  
Pro Glu Ile Phe Phe Ala Leu Ala Ser Ser Leu Ser Ser Ala Ser  
50 55 60  
Ala Glu Lys Gly Ser Pro Ile Leu Leu Gly Val Ser Lys Gly Glu

65	70	75
Phe Cys Leu Tyr Cys Asp Lys Asp Lys Gly Gln Ser His Pro Ser		
80	85	90
Leu Gln Leu Lys Lys Glu Lys Leu Met Lys Leu Ala Ala Gln Lys		
95	100	105
Glu Ser Ala Arg Arg Pro Phe Ile Phe Tyr Arg Ala Gln Val Gly		
110	115	120
Ser Trp Asn Met Leu Glu Ser Ala Ala His Pro Gly Trp Phe Ile		
125	130	135
Cys Thr Ser Cys Asn Cys Asn Glu Pro Val Gly Val Thr Asp Lys		
140	145	150
Phe Glu Asn Arg Lys His Ile Glu Phe Ser Phe Gln Pro Val Cys		
155	160	165
Lys Ala Glu Met Ser Pro Ser Glu Val Ser Asp		
170	175	

&lt;210&gt; 26

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5497814CD1

&lt;400&gt; 26

Met Ser Val Leu Pro Leu Cys Val Leu Pro Leu Leu Leu Ala Ser			
1	5	10	15
Cys Ser His Leu Ser Thr Phe Leu Trp Pro Pro Ser Leu Ala Cys			
20	25	30	
Cys Leu Glu Thr Leu Val Gly Ile Pro Phe Ser Arg His Arg Ser			
35	40	45	
Leu Gly Leu Ile Pro Ala Pro Arg Cys Leu Pro Leu Pro Ala Ala			
50	55	60	
Ile Pro Thr Ser Leu Cys Ser Pro Pro Phe His Ser Leu His Ser			
65	70	75	
Leu Pro Arg Cys Pro Leu Leu Lys Val Leu Gly His Pro Gln Val			
80	85	90	
Ala Trp Ser Arg Gln Gln Pro Leu His Phe Thr Ser Ala Asn Asp			
95	100	105	
Arg His Leu Ser Lys Ala Cys Pro Gly Cys Ser Trp Tyr Ser Ser			
110	115	120	
Asp Ser Leu Val Ala Phe Gln Arg Pro Phe Pro Ser Gly Leu			
125	130		

&lt;210&gt; 27

&lt;211&gt; 2730

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1288847CB1

&lt;400&gt; 27

cggtaggaa gctcctctta gtactaagag acttcaagct tcttgcttta agtcctcacc 60

D E E E E E E E E E E

ctttacatta tctaattctt cagtttgat gctgataacct gccccggcc ctaccttagc 120  
 tctgtggcat tataatctctt ctctggact cttcaacctg gtactccata ccttttggtgc 180  
 cctctcactt taggcagctt gcactattct tgaatgaatg aagaattatt tcctcatttg 240  
 gaagttaggag ggactgaaga aattctcccc aggcactgtg ggactgagag tcctattccc 300  
 ctagtaatag gtcataattcc cctagtaata tgagttctca aagcctacat tcaggatctc 360  
 cctcttagat gtgatagatc tggccctct ccttgaacta cccctccaca cgctctagtc 420  
 ccttcaacct accggcttat taagtgggtg ctttctctc ctggagatgc cccaatttt 480  
 tattctcagg gcccaaggct aggtctgcaa ccotctgtct ctgacagatt gggagccaca 540  
 ggtgcctaatttggaaaccag ggcattggaa aggagttgggt caaaaattttt ctctttctcc 600  
 tccacctctc aaacttcttc actatagtga ctttcttagg ctctcagggg ctcttcagt 660  
 ccccatccata tgagaaacta gtgggttgct gcctgatgac aagggggtgt tttagccct 720  
 cagtcatgt gccttctgtc gtcctccccc agcaggattt acctctcat tcccggtctc 780  
 ctggccctg ttcttagat cagttggcagg gagaaaacggg tatctctttt ctctcttcta 840  
 attttcagta taacccaaaaa ttatcccagc atgagcacgg gcacgtgccc ttccacccat 900  
 tccacccttg ttccagcaag actgggatgg gtacaactga actgggtct tccttacta 960  
 ccccttctca cactcagctc ccagacacag ggttaggaggg gggactgctg gctactgcag 1020  
 agacccttgg ctattttagt aaccttagat tagtgagaag gggcagaagg agatacaact 1080  
 ccactgcaag tggaggttcc ttcttacaag agttttctgc ccaaggccac agccatccca 1140  
 ctctctgtt ctttgcattt caaaaccaaa gctgttttc tatgtttaaa gaaaaaaaaa 1200  
 agtaaaaaacc aaacacaaca ctcacaagt tgtaactctt ggtccttctc tctctccctt 1260  
 tctctccctt tccttccctt tccatctttc ttccacatg tccttcttattggctctt 1320  
 ttacccctta ctttctcac tccctatcag ggatattttt gggggggatg gttaagggtg 1380  
 ggctaaaggaa cagaccctgg gattagggcc ttaagggtct tgagaggagt ctacctgccc 1440  
 ttcttatggg aagggagacc ctaaaaaact ttctcttctt tgctcttctt ttctccccc 1500  
 actctgaggt ttccccaaga gaaccagatt ggcaggaga agcattgtgg ggcaattgtt 1560  
 cctcccttgac aatgttagcaa taaatagatg ctgccaagggg cagaaaatgg ggaggttagc 1620  
 tcagagcaga gtagtctcta gagaaggaa gaatctcaa cggcaccctg ggggtctagc 1680  
 tccttttag aatgtcagca gagctgagat taatatctgg gctttctctg aactattctg 1740  
 gttattttagt ctttctgtt agacctaccg cttccacactt ctctctgttc tgctgtgtat 1800  
 ttggtgacac ttccataagga cttagtccctt ctgggttac agagccttag ggtccccca 1860  
 tcccccttccc cagtcactg tggcacctgt aacccccgg aacatgaagg actatgtct 1920  
 gaggctatac tctgtccccca tgagagcaga gactggaagg gcaagaccag gtgctaagga 1980  
 ggggagaggg ggcattctgt ctctctccag accatcactg cactttaacc agggcttag 2040  
 gtacaaaatc ctactttca ggccttcca gctctggAAC ctcaaacatc ctcatgtct 2100  
 ctcccagctc ctttgcata aaaaaaaaaa taaagaaaaa gaaaaaaaaa tacacacaca 2160  
 ctgaaaccca catggagaaa agaggtgttt cttttatattt tgctattcaa aatcaatacc 2220  
 accaacaaaaa tatttctaag tagacacttt tccagacctt ttttttttgg tgctgtgtc 2280  
 caagctgcag ataggatttt gtaatacttc tggcacttc ttcttctgt tacataat 2340  
 atatatatac atatatatac atatttttaa tcagaagtt tgaagaacaa aaagaaaaaa 2400  
 taaacacaga agcaagtgc ataccaccc ttttctccct ctctcttagg gtttcccttg 2460  
 tagcctatgt ttgggtgtctc ttttgacctt tacccttca cttccctccctc tcttcttctg 2520  
 attcccttccc cccccctttt taaagagtt ttcttcttca aagggggag ttaaacttagc 2580  
 ttttgagact tattgcaaag cattttgtat atgtaatata ttgtaagttt atatttgtt 2640  
 aacggagata tactactgtt agttttgtac tttttttttt gaaagtctgt tataaataaa 2700  
 catgagtaat ttaacaccaa aaaaaaaaaa 2730

<210> 28  
 <211> 1339  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1329044CB1

PF-0701 USA

<400> 28

cacacatttt gaaatatgtg tcaaataattt aggaataacta attaatcta aaaatccata 60  
attgaaattt aaagagttaa aagtacacaa aatagactga aaaattaatt atccaacaat 120  
atgaaaaccc caaatgacct atttctcaga caactagggt atcttcaat ctgctgctt 180  
gtathttctt ctgaagagtc aaaaaattat aaaatatcct taatagtcta cttgacattt 240  
ttgactatgg aaaccaagcc caggaatagt atatacagtg tactaaccctt gtcaacccac 300  
ccagactttg agtccccacg tacaggagtc cccaaacccca gggccgaaga ccagtaccag 360  
tttggggctt attaccgggt cacatagcg gaggtgagca gcgggatgag gcagcattac 420  
tgcctgaact ctgcctcctg ttagatcagc agcagcattt ggttctcata ggagtgtgaa 480  
ccctattgtg aactgtcag gtgagggatc taggttgcattt gtccttatg agaatcta 540  
gcctgatgat ccgagtgaaa cagtttcatc cccaaacccat ccaccaccac caccctctcc 600  
catgtccatg gaaaaactgt ctttgacaaa actggccctt ggtgccaaaa aggttgggaa 660  
ccgctgccta agtagaccaatgtcatttgcgtt atctaaaccc accagacaaa gtacacattc 720  
acatccaaaaa aatgaagagc aggagtaaga tgagcagac atcagtgagg ctttgggaaag 780  
gtcaactatt agcatccatt ttgatgtctt ggcatttcatttgcgtt acattcacag 840  
catcattctc ttccaggaag ggagaagagc tgtggagtag atctgtgagc aaaagagaaaa 900  
tggaaagacag tggctgatcc caaatacatt tgagttagcata agatataaga agagttatac 960  
aggccagaga caacgaacac aaagaatcta acagtctacc caaaaattat gccctaaaaac 1020  
agtgacttctt caaccagact caatttctctt gcaatgtctg gagacattca gtagttgtct 1080  
ggagacattc agtagttgtc acaactgaggc tggaggtaact gtgttgcctt tggcatttag 1140  
taggttagaga tcagggatgc tgctaaacac cctacagtgt acaggacagc ccctacaaca 1200  
aagaattaaac caaatgtca acaatgtcaaa ggctgagaaa ctctgaccta aaatgacaat 1260  
cattatgact aaccatgtgc atagctgaaa agatccatga aaagccttaa aatagatcgc 1320  
aataaacattt atgttagtca 1339

<210> 29

<211> 987

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1493630CB1

<400> 29

aaatgtgcat agcagaatgt taacagacgc tgcctttagg gagagataaa aagcataatg 60  
acattagcta ggaaagttaa ttttcagttt ttactgaagt gctgtatgaa actgaaattt 120  
ccaaaggaact gaattttgtg agccaaatgtca gcatgcaatt ctgtttaag atggtgccct 180  
tatgtgttg tctctggaaatg atctccggctt gtgaggaatgtt ccctctact tacaacctgc 240  
tcaagtgcctt cctagataaa ggcactgtg tactcctgac accttgggtt tacatctttt 300  
ccttgatcag tccagaaattt ctcaaaactca cttaatcac tttgcagatc ctcttaatac 360  
tcaaaaatctt acacttactg tggctgacag tttcaagcag atgttgcatttgcgtt 420  
caagaaaaaga aaagtagaaag aaccctgcag agatttgatg gaacccagct tctatttattt 480  
aaaaccaatgtt gcaaaatata aagcaaatag gaggtgacga agtttacaaa gatacgtattt 540  
gtttatgtttt tccctgggggtt gtgctgatgtt tcaggcatca gttccctgtt ccatttattt 600  
cccaacacag catgcatcag aaattttatc aataaatgtt ttctctctca atgttcaacc 660  
tatgtgttata gaccattttt tacagtttttt gggttcacag ctgttgcatttca tcattttgtct 720  
atacatgtggaaa aaaaatgtt aataataatgtt actctcgttgcacac tttaaaacta 780  
atgtgttgcgtt ctttgcatttgcgtt ctttgcatttgcgtt ctttgcatttgcgtt 840  
atgtgttgcgtt ctttgcatttgcgtt ctttgcatttgcgtt ctttgcatttgcgtt 900  
tatatgtttaa gtattatgtt accctgttgcata tactgttataa aatgtgttgcgtt 960  
caatataatgtt ctttgcatttgcgtt ctttgcatttgcgtt ctttgcatttgcgtt 987

<210> 30

PF-0701 USA

<211> 842

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1533041CB1

<400> 30

ggtcctcct gcagttggg agacatggac cagcatctgg tcttgttcc aggagcatag 60  
aaggcacatc gttgagacat caggaaggta aaaaccaggc ggcttagcca agccctaagc 120  
ctgtccccag accaaccctg ggacctatac agaacagagg gccagagcta gggctgctgc 180  
ttctgctcca gcccccttgc ctctgtcctc ccattccctc aacaccctgc ttctcccg 240  
gacgctttg agtggccctt gccccgggag ctgcagagca gcagcacett tctctgagaa 300  
gaggtcctt gttgggtcaa gcacagggct gagcgtggaa gggggaggag tcaggggctc 360  
tgtgttagga tgcggcttgc tctgcctctg ggcagctgc ttggcctt cttgtatgt 420  
gggtgttat tacaagtggc ttgtgtcag acacgctcg ctcccccacct ggacacacac 480  
tcaccaggcg ccttcagtg tagcgggagg aagccgggtg ccctggatgt gaagctaca 540  
ctgatggcgt gggcagggg cctggcccg cgagggggcc ggggggaggg gacagagctg 600  
aggatttcct ggagtccct gcagggcacag aggaggctcga caaaggctt gaatagattt 660  
tctctggaaa taaagaatcc ttagatgcct aaaaattccc ttctgttcc ctccgttcc 720  
tgggacacct cccaggggac tgttccttat ttctctctcc tgggtgtgggt aaagggacag 780  
ttacaaacca ggtcaccatc ctcagaggct gagcctgtt cccacccagc acagccactc 840  
cg 842

<210> 31

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1566162CB1

<400> 31

gtaagaatcc cagatccata gtttgggtcg ggttaagggtt tgatgagatg ataagggtgg 60  
tttatttcag actttggta aaagggagta tgaatcgtt cattaattca tcttgttcc 120  
cagagagaaa aaaaagatca agagaagcca ttctggctct gccacatccc cacagccagc 180  
cctgttttat ttcaactgtc tgctcaaatt aaactccacca cactggagtg caatctgcca 240  
ggagccagct ggggtgtatt gtgttcagtt gttcaaatgt tcaggcccgt tctggtaag 300  
ttcatgctgg tgcgtcttgg agggatgcct agggtaagg gctgagctct gaagtcaagaa 360  
tgatctgttt tagaacctgg ctcttcata gattataggt catttcctct ttctttatgg 420  
caactcacaa aagaggaatc agggaaagctc ctgtaccaat gttggctct aacaggatct 480  
ggaactgaag actaattatt tggatgtggc ttacactcaa aaggacattt tgaagtgggt 540  
gaagaggaga aactttccta acaacttgc caaagactct ttactccag ggaacatagc 600  
taactggaaa gagggtggag gatctgtgc ttgtcccat actggaaaca cacaggacag 660  
aaggctccac aacacagcct ggccttggga ggaaggtagg aggttctgac tcagcagcca 720  
gctgtgagag gtggaaagagg acccttgatc tggcaagca agggttcagt cctgctggaa 780  
agatgactct ttaccaaga gaatactgaa tcccagagaa gtctcagact gcagtactct 840  
aggagtgaaa accagttgga tgtctagagg aactcagcca gctggataag ttctcatctc 900  
tccaccttgc acattgtgct tcacactgtat gttgatgttc atcaagggtt tgcgttccac 960  
cctcttcttgc ggcagcacac tctcccacag ggatccatc tgggtttata gcttccattt 1020  
ccatctctat ctgtgcctc atgctgttgc cccagtgaca aactcaatat acaattacct 1080  
gctggactc tacctggata cctgcacatg agacccaaca aagga 1125

PF-0701 USA

<210> 32  
<211> 597  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1811831CB1

<400> 32  
cttatttgaa aatcaatata accacatcta taaaaacaat tttaaagaat gcccaaatcc 60  
cagagccatc atctcaccca attacaactc ttgcctcat gtctgcttgg cctcttgc 120  
cctgttcctg ctgtgcacatc atacattttt cagggatgtg tcctcagtgg acgtgagatt 180  
ttttttctg ttttgcagtt ttttacacaa acatttcat ttgttgttcc tgttttcct 240  
tccttcccag gaggcttag gctcccatc tcctctccct ggctttctct ctgtcccatc 300  
caccgctcta cccttcaggc ctgcctatat gaaagaggc tctttctatg cagaaaactc 360  
actttaacaa gatgtgggtg ctcttacaca gacctcatat gaggaaaata gcacatcagt 420  
gaacttgggg tccctgggag tcacagtat gttcaccaga aaatcagaca acggtaatgt 480  
acctccccca tcagttgcc aaaaatttga ataggtttt gtttttttgg tggtgttgt 540  
ttgagacgga gtcttgcct gtcaccaggc tggagtgcag tggtgcgatc tcggctc 597

<210> 33  
<211> 658  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1835447CB1

<400> 33  
acgatgcgag ccaaaggatt ctggctcca agcctggtcc tggctgttag tttggaactc 60  
atgcacccag atgctactc gccctcgaa tgcaggggg atgaaaacact gaccggacaa 120  
ttcaatctgt atatggaga taaaactggag gggaaagacga atggcaggag ggtgaagagg 180  
aaactgaatt actgtgaaa cacccgccac tcaaattccgg gtggttactg cagagtgaat 240  
aacgataggt actattcgt gtaaggcaaa gtccttgaa agggctccta gagcgtcaag 300  
gcctccacct gatgaatgaa tgagtcaggc aggcccagct ccacttcacg gatggggaaa 360  
ctgaggtacg aggccctcgct gaaagatgcg aggccagcg gagaaccaga agcaccactt 420  
ctctcaggct gatgctctaa tctcggttcc cccccccct acaatggcg agacggcctc 480  
cgccgccccg ctcacacaca ccctcccccg ggaacggcaa gtctcctcg gttccaagga 540  
cagggtaaaa agacaagagg cccgaggcg tcccggctg atttgcagcc agataccgtt 600  
gggagcgcac gcagagagcg ttgggagcgt gcgtacctcc agcccaacat ggcggcgg 658

<210> 34  
<211> 639  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3892281CB1

<400> 34  
gggttacagg cgtgagcacg gtgcacggcc tgcttataa caaattgtcc ccaaacttag 60

PF-0701 USA

caacaactat	ttgccccaga	caactgtttt	tcccccttcc	ttctatggat	tgaccagcca	120
gttctgcattt	agatggatt	ggatggagcc	ctggaatggc	taaaaaggcc	aaactggcc	180
gacttgccta	gccagcaatg	cggtgtcaggc	tccttagctgg	ggccttagtt	ctcctgcacc	240
tgccggcttc	catatggctg	cttggacttc	ctcatagcat	ggcagatgga	ttacgagaag	300
gagcattccc	aaataaagga	ccacataaagc	tagatctctg	gagggctagc	ctcagaagtc	360
acccagtgtc	acatgggcca	cattttattt	gttacagggc	cagccagtt	gaagggaaag	420
agaaaatatgt	cgctgtttat	gctgtgtcca	gtgctagctt	gctacctgt	ctcccagttc	480
cagtgcctag	ggcagcactg	gcagaacaga	tgtacttact	gagttaaaaaa	cagcaacatc	540
caagacaatt	gttaactttt	aaaactgtct	cccatcccag	aaggtaaaac	taaaaaaacta	600
acaataaaaa	taatagtaat	aaataataaa	aaaaaaaaaa			639

<210> 35

<211> 996

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4318494CB1

<400> 35

gtctgactat ctgatggaga caccttctga gccgaaacag tgtggccata gtggctgtgt 60  
cctcagagat gaggagcccc tccttcctt tcacattgtct ctctggcctt cccggacctg 120  
gcttctcgca gctttgtgtc cggtttctc aggtgtccag gaatcccattt cgaagtgaag 180  
gctgcttgg tctccatcaag tctgtccagg acaatccagg ctctggccctt gaactgtgtgg 240  
atttctcaga tatccaggt aacgcagagt ttgatggcct tgctagctca gtgaggggaa 300  
ttcttcaga actctgcata aagactggcg cttgcagagt ggagtataaa aaggagttgc 360  
tgccagtcctt cagatcagcc ctgccagcgt ctgtccctaa gtgaccttgg agtgtggctt 420  
cctcatctcc aatcagctgc tttgacctcc agggttatata cttgaaaagaa atgaagacat 480  
atgtcccccac aagaactcgt gcacgaatat ccatacgcaac attattttata atattctaaag 540  
agtgaaaatg cccaccaggta gataaatgca atgtgttata tccatacagt ggaatattat 600  
ttggcaataaa aaaggaaattt gaggtgatac caatgttcta aatgttattt tggtgatggc 660  
tacgtaactg tgcataattct aaaggcaatt gaattacaga tgctttacat gaatgaaccg 720  
tatggtagtgc gaacggcattc tcaataaaaac tggttgcggaa agaaggaaaa ggacggacac 780  
atgctgaaaaa cgggtgaaac tagaaaaacat ggcgttaagt gaaagaagcc agccacaaga 840  
tcacgtgtcg catgaccgca tttatgtgaa acatccggag tatgcaaattc tatacagaca 900  
gaaagttagat tatacattgc ctaggtgcag agaaaatggaa gtattggagg ttgacggctt 960  
aaggatgtgg atttcttgg gggtgataaa agtgg 996

<210> 36

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5090841CB1

<400> 36

```

ggatggggtc agcaccaga agccagcccc ctctgacagc ttctcttgc gccaagccc 60
gcctctgtac agctcgagt ggacagccag aggctgcagc tggagcccaag agcccaaat 120
ggagccccag ctggggcctg aggctgcgcg cctccgcctt ggctggctgg ccctgctgct 180
gtgggtctca gcctcgagct gtttttctc cttgccagct tcttccctt cttctctgg 240
gccccaaatc agaaccagct acaattttgg aaggactttc ctgggttttg ataaatgc 300

```

tgcctgcatc gggacatcta tttgcaagaa gttctttaaa gaagaaataa gatctgacaa 360  
 ctggctggct tcccaccttg gactgcctcc cgattccttg ctttcttatac ctgcaaatta 420  
 ctcagatgtatccaaatct ggcccccgtt ggagatctt agactggtca gcaaataatca 480  
 aaacgagatc tcagacacgga gaatctgtgc ctctgcatca gccccaaga cctgcagcat 540  
 tgagcgtgtc ctgcggaaaaa cagagagggtt ccagaaatgg ctgcaggcca aggcctcac 600  
 gccggacctg gtgcaggact gtcaccaggccagagagaa ctaaagtcc ttgttatgct 660  
 gagataacac cagtaaaaaa gcctggcatg gagcccgca ctgagaactt ccagaaagtg 720  
 ttagccttct cccaaactgtt ttataccaac cacatttca aatagtaatc attaaagagg 780  
 cttctgcatc aaaaaa 795

<210> 37  
 <211> 1419  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2006548CB1

<400> 37  
 tggcctcccc agcttgccag gcacaaggct gagcgggagg aagcgagagg catctaagca 60  
 ggcagtgttt tgccttcacc ccaagtgacc atgagagggtt ccacgcgagt ctcaatcatg 120  
 ctccctcttag taactgtgtc tgactgtgtc gtgatcacag gggcctgtga gcgggatgtc 180  
 cagtgtgggg caggcacctg ctgtgccatc agcctgtggc ttcgagggtct gcggatgtc 240  
 accccgctgg ggccggaaagg cgaggagtgc caccggca gccacaaggct ccccttcttc 300  
 aggaaaacgca agcaccacac ctgtcccttgc ttgccaacc tgcgtgtgtc caggtcccc 360  
 gacggcaggt accgctgtc catggacttgc aagaacatca atttttaggc gcttgctgg 420  
 tctcaggata cccaccatcc ttttccttagt cacaaggctgg atttttattt ctgccccatgaa 480  
 acccagctcc catgacttgc ccagtccttca cactgactac cctgatctt ctgtcttagt 540  
 acgcacatat gcacacaggc agacataacctt cccatcatga catggcccc aggctggcct 600  
 gaggatgtca cagtttgagg ctgtgggtgtt aaagggtggcc agcctgggtt tcttcctgc 660  
 tcaggctgcc agagagggtgg taaaatggcag aaaggacatt ccccttcccc tccccagggtg 720  
 acctgctctc tttctgggc cctgcccctc tccccacatg tatccctcgg tctgaatttag 780  
 acattcctgg gcacaggctc ttgggtgtcat tgctcagatccc cccaggtcctt ggcctgaccc 840  
 tcaggccctt cacgtgaggt ctgtgaggac caatttgtgg gtatgttcatc ttccctcgat 900  
 tggtaactc ctttagtttca gaccacagac tcaagattgg ctcttcccag agggcagcag 960  
 acagtccccc caaggcaggt gttagggagcc caggaggcc aatcagcccc ctgaagactc 1020  
 tggtcccagt cagcctgtgg ctgtggcct gtgaccgtgtt accttctgcc agaattgtca 1080  
 tgcctctgag gccccctctt accacacttt accagttaac cactgaagcc cccaaatccc 1140  
 acagtttttc cattaaaatg caaatggtgg tggttaatc taatctgata ttgacatatt 1200  
 agaaggcaat taggggtttt ctttaaaacaa ctccttcca aggtcagcc ctgagagcag 1260  
 gttgggtact ttgaggaggcag cagtcctctg tccagattgg ggtgggagca agggacaggg 1320  
 agcagggcag gggctgaaag gggactgtatc tcaagaccagg gaggcaacta cacaccaacc 1380  
 tgctggctttt agaataaaag caccaactga aaaaaaaaaa 1419

<210> 38  
 <211> 1265  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2207183CB1

PF-0701 USA

<400> 38

gtttactgag ggcagatgga ggggcccggag tttctgcgaa ccgcgaccc tcgtccgga 60  
cgcggggaaac accgggctga gggagtctgc agtcggctcc gggaaagccgc gcggcgacgg 120  
gggaggccctt cactaaaggg gaaaaggaag agggggtcgg ccagtatccc cgaaagaggg 180  
ctagggcgca tgaagaccag cgagagctc cacgagcagg aaaagcccc aagcagcccc 240  
agggcgactg gaccgggccc cttaggccac gcccgggaa gagggcctga cgctgcgg 300  
ggcggggcccg cggggccggg tcgcgcgagc agcggagcac caagggaaacg gaaaatggcg 360  
cctcacggcc cgggttagtct tacgaccctg gtgcctggg ctgcgcctt gtcctcgct 420  
ctggcgctgg aaaggctct ggcgtaccc gagatatgc cccaatgtcc agggagcgtg 480  
caaaaatttgt caaaaagtggc cttttattgt aaaacgacac gagagcta atgtcatgcc 540  
cgttgctgcc tgaatcagaa gggcaccatc ttggggctgg atctccagaa ctgttctctg 600  
gaggaccctg gtccaaactt tcatcaggca cataccactt tcatcataga cctgcaagca 660  
aacccctca aaggtgactt ggccaacacc ttccgtggct ttactcagct ccagactctg 720  
atactgcccc aacatgtcaa ctgtcctgga ggaattaatg cctggaaatac tatkacctct 780  
tatatagaca accaaatctg tcaagggcaa aagaacctt gcaataaacac tggggaccca 840  
gaaatgtgtc ctgagaatgg atcttgcgtt cctgatggc caggtcttt gcagtgtgtt 900  
tgtgctgtatg gttccatgg atacaagtgt atgcgccagg gtcgttctc actgtttatg 960  
ttcttcggga ttctgggagc caccactcta tccgtctcca ttctgtttt ggcgaccag 1020  
cgccgaaaag ccaagacttc atgaactaca taggtcttac cattgaccta agatcaatct 1080  
gaactatctt agcccaagtca gggagctctg cttccctagaa aggcatctt cgccagtgga 1140  
ttcgcctcaa ggttggggcc gccattggaa gataaaaat tgcaactccct tgggttagac 1200  
aaataccagt tcccatggt gttgtgcct ataataaaca cttttttctt taaaaaaaaa 1260  
aaaaaa 1265

<210> 39

<211> 1720

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2267403CB1

<400> 39

cccacgcgtc cgccgccttc ctttgcgtt gacccctt cgtctctcca tctctccctc 60  
ctttcccccgc gttcttttc cacctttctc ttctccac cttagaccc tcgtccctgca 120  
ctcccttcctt gcccaccgtc gttctctggc ctttctccga ccccgctcta gcagcagacc 180  
tcctggggtc tgggggttga tctgtggccc ctgtgcctcc gtgtcccttt cgtctccctt 240  
cctcccgact ccgtcccccgg accagccggc tgaccctgg gaaaggatgg ttcccgaggt 300  
gagggtccctc tcctccttgc tgggacttcg gtcgtctgg ttccccctgg actcccacgc 360  
tcgagccccc ccagacatgt tctgcctttt ccattggaa agataactccc ccggcgagag 420  
ctggcaccccc tacttggagc cacaaggccct gatgtactgc ctgcgtgtt cctgctcaga 480  
gggcgcctt gttttttttt accgccttcca ctgtccgcct gtccactgc cccagctgt 540  
gacggagcca cagcaatgtc gtcccaagtg tggggaaacct cacactccct ctggactccg 600  
ggcccccacca aagtccctgcc agcacaacgg gaccatgtac caacacggag agatcttcag 660  
tgcccatgag ctgtccctt cccgcctgca caaccagtgt gtcctctgca gtcgcacaga 720  
gggcgcagatc tactgcggcc tcacaacctg ccccaacca ggctgcccag caccctccccc 780  
actgccagac tcctgtgcc aagcctgcaa agatgaggca agtgcgtt cggatgaaga 840  
ggacagtgtc cagtcgtcc atgggggttag acatcctcag gatccatgtt ccagtgttgc 900  
tggggagaaag agaggccccgg gcaccccgagc ccccaactggc ctcaagccccc ctctgagctt 960  
catccctcgc cacttcagac ccaagggagc aggcagcaca actgtcaaga tcgtccctgaa 1020  
ggagaaacat aagaaagect gtgtgcattt cggggaaagacg tactcccaacg gggaggtgt 1080  
gcacccggcc ttccgtgcct tcggccctt gcccgtccatc ctatgcaccc gtgaggatgg 1140  
ccggccaggac tgccagcgtg tgacccgttcc caccgagttcc cccctggccgtc accccggagaa 1200

PF-0701 USA

agtggctggg aagtgtgc a gatttgc c agaggacaaa gcagaccctg gccacagtga 1260  
gatcagtctt accagggtgc ccaaggcacc gggccggc ctcgtccaca catcggtatc 1320  
cccaagccca gacaacctgc gtcgcttgc cctggAACAC gaggcctcg acttggtgaa 1380  
gatctaccc tggAAAGCTGG taaaAGATGA ggAAACTGAG gTCAGAGAG gtGAAGTACC 1440  
tggcccaagg ccacacagcc agaatcttcc acttgactca gatcaagaaa gtcaggaagc 1500  
aagacttcca gaaagaggca cagcacccactc gactgctcg tggccccac gaaggtcact 1560  
ggaacgtctt cctagcccag accctggagc tgaaggtcac ggcagtcac gacaaagtga 1620  
ccaagacata acaaagacact aacagttgc a gatatgagct gtataattgt tgtaattata 1680  
tattaataaa taagaagttt cattaccctc aaaaaaaaaaaaa 1720

<210> 40

<211> 1055

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2933038CB1

<400> 40

gaaaaaaaca acaggaagca gcttacaaac tcggtaaca actgagggaa ccaaaccaga 60  
gacgcgctga acagagagaa tcaggctcaa agcaagtgg a gttccacca 120  
ggactggc aaggcgaga gccagccaga tttgagaaga aggcaaaaaag atgctggga 180  
gcagagctgt aatgctgtg ttgctgtgc cctggacagc tcagggcaga gctgtgcctg 240  
ggggcagcag ccctgcctgg actcagtgcc agcagttc acagaagctc tgcacactgg 300  
cctggagtgca acatccacta gtggacacaca tggatctaag agaagaggaa gatgaagaga 360  
ctacaaatga tgccccat atccagtgtg gagatggctg tgaccccaa ggactcagg 420  
acaacagtca gttctgttg caaaggatcc accagggtct gatTTTtat gagaagctgc 480  
taggatcgga tatttcaca ggggagcctt ctctgtccc tgatagccct gtggccagc 540  
ttcatgcctc cctactggc ctcagccaaac tcctgcagcc tgagggtcac cactgggaga 600  
ctcagcagat tccaagcctc agtcccagcc agccatggca gctgtccctt ctccgcttca 660  
aaatccttcg cagccctcag gccttggc ctgtagccgc cccgggtctt gcccattggag 720  
cagcaaccct gatccctaa aggccagcagc tcaaggatgg cactcagatc tccatggccc 780  
agcaaggcaca agataaaatct accacccca gCACCTGTGA gccaacaggt taattagtcc 840  
attaatttta gtggacactg catatgttga aaattacca tactgactga catgtatgc 900  
tgacctatga taagtttgag tatttattag atggaaaggaa aattttgggg attatttatac 960  
ctcctgggaa cagttgggg aggattattt attgtattta tattgaatta tgtactttt 1020  
tcaataaaatgt ctatTTTG tggctaaaaaa aaaaa 1055

<210> 41

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3216587CB1

<400> 41

cgggtccctcg cgccgggaag cggttcccaa ggctcgccgg gacggctag ccctgagtcc 60  
ctgcattgtgc gggctgaag aaggaagcca gaagcttcc agcctcgccct ccacgcttgc 120  
tgaataccaa gctgcaggcg agctgcccgg cgctttctc tcctccaatt cagagttagac 180  
aaaccacggg gatttcttc cagggtaggg gagggccgg gcccgggtc ccaactcgca 240  
ctcaagtctt cgctgccatg gggccgtca tggcacctt ctcatctctg caaaccaaac 300

aaaggcgacc ctcgaaaagat aagattgaag atgagctgga gatgaccatg gtttgcacatc 360  
 ggcccgaggg actggaggcag ctcgaggccc agaccaactt caccaagagg gagctgcagg 420  
 tcctttatcg aggctcaaa aatgagtgcc ccagtggtgt ggtcaacgaa gacacattca 480  
 agcagatcta tgctcagtt ttcctcatg gagatgccag cacgtatgcc cattacctct 540  
 tcaatgcctt cgacaccact cagacaggct ccgtaaagtt cgaggacttt gtaaccgctc 600  
 tgcgatTTT attgagagga actgtccacg agaaaactaag gtggacattt aatttgatg 660  
 acatcaacaa ggacggatac ataaacaaag aggagatgtt ggacattgtc aaagccatct 720  
 atgacatgtt gggaaatac acatatcctg tgctcaaaga ggacactcca aggccatg 780  
 tggacgtctt ctccagaaa atggacaaaa ataaagatgg catcgtaact ttagatgaat 840  
 ttcttgaatc atgtcaggag gacgacaaca tcatgaggac tctccagctg tttcaaaatg 900  
 tcatgttaact ggtgacactc agccattcag ctctcagaga cattgtacta aacaaccacc 960  
 ttaaacacctt gatctgcctt tgttctgatt ttacacacca actcttggga cagaaacacc 1020  
 ttttacactt tggaagaatt ctctgctgaa gactttctat ggaacccagc atcatgtggc 1080  
 tcagtctctg attgccaact ctccctctt ctcttcttg agagagacaa gatgaaattt 1140  
 gagtttggg ttgaaagcatg ctcatctcct cacactgctg ccctatggaa ggtccctctg 1200  
 cttaagctt aacagtagtg cacaatataat gctgcttacg tgccccccagc ccactgcctc 1260  
 caagtccaggc agacccctggt gaatctggaa gcaagaggac ctgagccaga tgcacaccat 1320  
 ctctgatggc ctcccaaacc aatgtgcctt tttcttcc ttgggtggga agaatgaga 1379

&lt;210&gt; 42

&lt;211&gt; 702

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5037143CB1

&lt;400&gt; 42

ggcagggtgt cgcttggctc agtgcacatt tactctggac tccggatggc tgccgcacgc 60  
 ctctgcctct ccctgtgtc cctgtccacc tgctggctc ttttactaca gccactgctg 120  
 ggtgcccagg gagccccact ggagccagtg tacccagggg acaatgccac accagaggc 180  
 atggcccagt atgcagctga tctccgtaga tacatcaaca tgctgaccag gcctaggtgt 240  
 gtgccacagt tggggagaga gatcccagcc cctgggaccc tggcccaact ccacattct 300  
 ggccacaccc tatccccaggc cccagccccca gccccttcca ggctgtctct tggaaaaaca 360  
 gggcatctgt gctcaacagg cctagaccaa tgtccctgg gcaagatgtt gcctacaggc 420  
 agatatgaaa caggtgggct ggcacctggg cacagtgtt gcccctgctg cctttccct 480  
 cccaggtatg gaaaaagaca caaagaggac acgctggct tctcgagtg ggggtccccg 540  
 catgtgtctg tccccaggga gtcagcccc ctggacttat aatgccacct tctgtctcct 600  
 acgactccat gacgacgccc agccctggct tccctctgc acccttggct ctggccaaag 660  
 cttgcttccct gctcccacac agatcaataa agaagcatgt cc 702

&lt;210&gt; 43

&lt;211&gt; 1855

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1235265CB1

&lt;400&gt; 43

acctgggtcc ggccccctga ggccgccccgg actccaggct cagacaagga gccccctgtg 60  
 gagcggaggg agccctccat caccaaggag gagaaggaca gggacctccc cttctcacgg 120

ccccagctcc gagtttctcc tgctactccc aaggccccggg ctggtgagga ggggcctcg 180  
 ccaaccaagg aatctgtgcg ggtaaaggaa gagcggagg aggaggctgc cgccgcgc 240  
 gccgctgctg ctgcccggc cgctggcgc gccgcacgc ccactgggc ccagggcctt 300  
 cacctgctgt ttgagaggcc cggccggcc cgtttctgg gccctagccc accagatcgc 360  
 tggctgctgct tcctggagcc aacctggttg gcagcacccc cacgcctggc aaggccaccc 420  
 cgcttctatg aggcgggtga ggagctaact ggaccgggg ccgtggccgc tgccgcctc 480  
 tacggtctgg aacctgctca ccccttgctc tacagggct tgctcctcc accaccaccc 540  
 gtcggcccgcc cgggaacccc tcaccttctc agcaagaccc caccgggagc cttttgggg 600  
 gcaccaccc tcgttggcc cgccccccgg cccagttccc cacctagggg ccctggccca 660  
 gtcgggctg acaggtgagg ggaacggggg ggggtcgggg caaagctcca tctcccttc 720  
 cttaaccag gtccctagggc tgagggttta agccagggt ggaggggaaa ggtcataacc 780  
 tcaccagcca cctctgaggt catggAACCTT gggAACAGAA gcctcaaccc ccacaagacc 840  
 aagcatcaca tggagtgtag ggtcaactggg agagcagagg tcacagcctc tagagaaggg 900  
 agaggggcgt gtgcattggg gtgtggctca tctcggggc catggggcct cctgaggta 960  
 acctttgccc ctgttaaggcc ctcttagggcc tgggctgccc tccccaaggg ctcactaagc 1020  
 cagaggccaa agttggccccc tcccgttca ctaaccacca agtcctcatg ccctccgagg 1080  
 gtcggggag gaggggctca aggaaggggg gttccatgta catatttata acccccttca 1140  
 catagcccca agacccccc tacattttta caggggtgcc cccccaaca gttccctcc 1200  
 tggtaatta aaccctcaga ctggtgctgt gttccatgcc tctggcctct ctgtggggaa 1260  
 aggggactgc agggggaaaga gcccggaaagg gacagtcaagg cttctccctg ggaaggtggg 1320  
 gccagcagga gatgaccaac agggggcagg acctggggac ctgggctgga gggaaaggca 1380  
 gaagcttctt acttggctga cagcccccgt tccccaaca tggccatgtt cactctgccc 1440  
 ccaccccaa aggctcagcc tctaaatctc agactccacc acctcttaat ggctcagtcc 1500  
 ccttcacccca atttccaaatg gccccccagg ctcctggcc ctgcttccct gaaccctgtt 1560  
 ctccaaaacc ctgccccagg ctaagggtgg ccagagaagg tcaccatgta ccacacacca 1620  
 aagaaggggg tcggcccagg gttgggcac acaggcagct tcttcggcag ctcacggca 1680  
 gcaaccccaag cttccaaaac gcaaggccggc ctcaggct gggcccaac ctagaaggca 1740  
 ggggtcaatc taacaaaacc ctaacgttga cttttttccc tggtgggct tcttctgtaa 1800  
 catgacttgc gaatatttat ataaaaacga gtgttacaat gagaaaaaaaaaaaaaa 1855

<210> 44  
 <211> 1132  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 5571181CB1

<400> 44  
 acagggttctc cttcccaagt caccagttgc tcgagttaga attgtctgca atggccggcc 60  
 tgcagaaatc tgtgagctct ttccttatgg ggaccctggc caccagctgc ctctttctct 120  
 tggccctttt ggtacaggga ggagcagctg cgcccatcag ctcccaactgc aggcttgaca 180  
 agtccaacctt ccagcagccc tatatcacca accgcacccat catgctggct aaggaggctt 240  
 gcttggctga taacaacaca gacgttcgtc tcattggga gaaactgttc cacggagtca 300  
 gtatgatgtt ggcgtgttat ctgtatgttgc aggtgttgc cttcaccctt gaagaagtgc 360  
 tggccctca atctgtatagg ttccagcctt atatgcagga ggtgggtgcc ttcctggcca 420  
 ggctcagccaa caggctaaatc acatgttcaata ttgaaggta tgacactgcat atccagagga 480  
 atgtcaaaaaa gctgaaggac acagtggaaaa agcttggaga ggtggagag atcaaagcaa 540  
 ttggagaact ggatttgc tttatgttgc tgagaatgc ctgcatttgc ccagagccaa 600  
 gctgaaaaat gaataactaa ccccccttcc ctgctagaaa taacaatttag atgcccccaa 660  
 gcgatttttt ttaaccaaaaa ggaagatggg aagccaaact ccatcatgtat ggggtggattc 720  
 caaatgaacc cctgcgttag ttacaaaggaa aaccaatgcc acttttgttt ataagaccag 780  
 aaggtagact ttctaaagcat agatatttat tgataacatt tcattgttac tggtgttcta 840

PF-0701 USA

tacacagaaa	acaatttatt	ttttaaataa	ttgtcttttt	ccataaaaaa	gattacttcc	900
cattccttta	ggggaaaaaaaa	cccctaaata	gcttcatgtt	tccataatca	gtactttata	960
tttataaattg	tatttatttat	tattataaga	ctgcattttt	tttataatcat	tttattaata	1020
tggattttatt	tatagaaaaca	tcattcgata	ttgctacttg	agtgtaaaggc	taatattgtat	1080
atttatgaca	ataattatag	agctataaca	tgtttatttg	cctcaatgcc	ct	1132

<210> 45  
<211> 1906  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> misc\_feature  
<223> Incyte ID No: 685374CB1

<400> 45  
cgaggcaaga attcggcacg aggggaccag cttataaaaga agcatggctt tgttaaggaa 60  
gtcgattca gagcctcagc ttaagggtat agttaccaag ctatacagcc gacaaggcta 120  
ccacttgcag ctgcaggcgg atggAACCAT tgatggcacc aaagatgagg acagcacca 180  
cactctgttt aacccatcc ctgtgggtct gcgagtggtg gctatccaa gagttcaaacc 240  
caagctgtac ttggcaatga acagtgggg atacttgtac acctcggAAC tttcacacc 300  
tgagtgcAAA ttcaaaAGAAT cagtgtttGA aaatttattat gtgacatatt catcaatgtat 360  
ataccgtcag cagcagtcaG gcccgggtg gtatctgggt ctgaacAAAG aaggagagat 420  
catgaaaggc aaccatgtGA agaAGAACAA gcctgcAGCT cattttctGC ctaaacCACT 480  
gaaagtggcc atgtacaagg agccatcaCT gcacgatCTC acggagttCT cccgatCTGG 540  
aaggccccacc ccaaccaAGA gcagaAGTGT ctctggcGTG ctgaacggAG gcaaATCCAT 600  
gagccacaat gaatcaacGT agccAGTGAAG ggcaAAAGAA gggctctGTA acagaACCTT 660  
acctccaggT gctgttGAAT tcttcTAGCA gtccttcACC caaaAGTTCA aatttGTCAG 720  
tgacatttac caaacAAACA ggcAGAGTTC actattCTAT ctgcCATTAG accttCTTAT 780  
catccataACT aaagccccAT tatttagATT gagcttGTGc ataAGAAATGc caagcATTtT 840  
agtgaactAA atctgAGAGA aggactGcA aatttCTCA tgatctCACc tataACTTGG 900  
ggatgataat ccaaaaAGTAT ttcacAGCAC taatGCTGAT caaaATTGc tctccCACCA 960  
agaaaaATGTA aaAGACCACa attgttCTC AAAAACAAAC AAAACAAAAC AAAACAAAAT 1020  
taactgcTTA aatgtttGT cggggcAAAC AAAATTATGT gaattgtgtt gttttCTTGG 1080  
cttgatgttt tctatctacG cttgattcac atgtactCTT ttcttggca tagtgcAACT 1140  
ttatgatttC tgaAAATTCAA tggttctatt gacttttgc gtcacttaat ccaaaATCAAC 1200  
caaattcagg gttGAATCTG aattggCTTC tcaggctcaA gtaacAGTG ttcttGTTG 1260  
ttgaccaatt gttttCTTT cttttttttt ttttttagat ttgtggTATT ctggtaAGT 1320  
tattgtgctg tactttgtgc gtagAAATTG agttgttATTG tcaACCCCCAG tcagtaAAAGA 1380  
gaacttcaAA aaattatCCT caagtgtAGA tttctttaa ttccatttGT gtatcatgtt 1440  
aaactattgt tggcTTCT tggtaAAAGA caggaACTGT ggaACTGTGA tggTGTCTT 1500  
tgtgttGTTA aaataAGAAA tggcttatCT gtatATGTAT gaggcttccT gtcattgtat 1560  
ttggcacatg aatattgtgt acaAGGAATT gttAAGACTG gttttccCTC aacaACATAT 1620  
attatacttG ctactggAAA agtgtttAAG acttagCTAG gtttccATT AgatCTTcat 1680  
atctgttgcA tggAAAGAAAAG ttgggttCTT ggcataGAGT gtcatgataT gtaAGATTt 1740  
gtgcattcat aattgttAA AATCTGTGTT cAAAAAGTGG acatAGCATG tacaggcAGT 1800  
tttctgtccT gtgcacAAAAA AGTTAAAGAAGTTGTTAA tatttGTTGT tggTATAccCA 1860  
aatacgcacc gaataAAACTC tttatattCA ttcaAAAGAAA aaaaaAA 1906

<210> 46  
<211> 1803  
<212> DNA  
<213> *Homo sapiens*

PF-0701 USA

<220>

<221> misc\_feature

<223> Incyte ID No: 843193CB1

<400> 46

caactggcca ggaggctctg ttacattgtg gctaaggagc tgcctgccag gggcagccat 60  
tggggccacc gctgatagtg cctgcctct tggtaactgcc tctgcctccc tccgctaagg 120  
aggcacctg cctgcctgct gtccccatagt gcccagcccc agccccagcc ccagctccag 180  
cccatagagg agggaggaac actggaaggg ccctgagcac cagggggcaa ggccggaaag 240  
aagatgggta tgagtcagg attccacagt tagtgcttca aagaaatgtc cacgggaccc 300  
tgcaggagct ttcagagtc cccacatgt ctctggtgac cctaactcgc agcaccatct 360  
gctctgtgcc catgtgctgg gcaagggggtc tttcaaggcc agtggggagg atgaggaagg 420  
aatctgggtg tcccgctaa tggagcatgt ccttgaggtt ctggggggaga tgacaggttc 480  
tggtctaaga ggttagggaca ggggttctgt ccctaattgag ctgtgtgcc cgtgcaccc 540  
cttcatagaa tacgaggacg gatagaacc ctgagggtc ctccagtc ccagagtc 600  
gattccaggg ctgtgctctg tcaataagtg tcccccagcc tgggcagacc ccagtccctt 660  
ctgtaaggta gaccaaagc aaagagggtt tgaccggctc acccaggggc ctgggaaggc 720  
tatggccata tgccacttc actctgcagg acaagtggcc tgcctccact atattcacct 780  
cctcaccctt ctcccttggta tggaccagtg gtgggtcact ccaaagcaaa ttgacactat 840  
ttttccctt gtaaccgcaa agggggagaaa tcacccgtct cctaatttttta accagtacgt 900  
gagggaccag ggcgccatga ccgaccagct gagcaggcgg cagatccgcg agtaccaact 960  
ctacagcagg accagtggca agcacgtgca ggtcacccggg cgtgcacatct ccggccaccgc 1020  
cgaggacggc aacaagtttgc caaagctcat agtggagacg gacacgtttg gcagccgggt 1080  
tcgcatcaaa ggggctgaga gtgagaagta catctgtatg aacaagaggg gcaagctcat 1140  
cgggaaagccc agcggaaaga gcaaagactg cgtgttcacg gagatcgtgc tggagaacaa 1200  
ctatacgccc ttccagaacg cccggcacga gggctggttc atggccttca cgcggcagg 1260  
gcggccccgc caggcttccc gcagccgcca gaaccagcgc gaggcccact tcatcaagcg 1320  
cctctaccaa ggcacgtgc cttgacccaa ccaccccgag aagcagaagc agttcgagtt 1380  
tgtgggctcc gccccccaccc gcccggcggaa ggcacacgg cggcccccagc ccctcacgt 1440  
gtctgggagg cagggggcag cagccccctgg gccccttccc cacccttcc cttcttaat 1500  
ccaaggactg ggctgggtg gccccgggg agccagatcc ccgagggagg accctgaggg 1560  
ccgcaagat ccgacccccc agctgggaag gggcaggccg gtgc(ccc)agg ggcggctggc 1620  
acagtgc(ccc) cttccggac gggtggcagg ccctggagag gaactgagtg tcaccctgtat 1680  
ctcaggccac cagccctctgc cggcccttcca gcccggctcc tgaagccgc tgaaaagtca 1740  
gcgacttaag gcctgcaga caaccgtctg gaggtggctg tcctcaaaat ctgcttctcg 1800  
gat 1803

<210> 47

<211> 3053

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1359783CB1

<400> 47

ctatgtattct actagaactg gaagattgt ctccgagttt tgttttgtta ttttgtttaa 60  
aaaataaaaaa gcttgggcc aaggcaattc atattggctc acaggattttt ttgctgtct 120  
gtgcaaggaa ctctgcttagc tcaagattca caatgttgc agcccttttc ctaactatgc 180  
tgactctggc gctggtaag tcacaggaca ccgaagaaaac catcacgtac acgcaatgca 240  
ctgacggata tgagtggat cctgtgagac agcaatgca agatattgtat gaatgtgaca 300  
ttgtccccaga cgcttgcataa ggtggatgtca agtgtgtcaa ccactatggg ggataacctct 360  
gccttccgaa aacagcccgat attattgtca ataatgaaca gcctcagcag gaaacacaac 420

PF-0701 USA

cagcagaagg aacctcaggg gcaaccacog gggttttagc tgccagcago atggcaacca 480  
gtggagtgtt gccccggggt gtttttgtgg ccagtgcgtc tgcatcgca ggcccgtaaa 540  
tgcagactgg ccgaaataac tttgtcatcc ggccgaaccc agctgaccct cagcgattc 600  
cctccaaccc ttcccaccgt atccagtgtg cagcaggcta cgagcaaagt gaacacaacg 660  
tgtgccaaga catagacgag tgcactgcag ggacgcacaa ctgttagagca gaccaagtgt 720  
gcatcaattt acggggatcc tttgcgtgtc agtgcctcc tgatatcag aagcgagggg 780  
agcagtgcgt agacatagat gaatgtacca tccctccata ttgccaccaa agatgcgtga 840  
atacaccagg ctcattttat tgccagtgc gtcctgggtt tcaattggca gcaaacaact 900  
atacctgcgt agatataaat gaatgtgatg ccagcaatca atgtgcgtcag cagtgcata 960  
acattcttgg ttcatcgtc tgcgtgtca atcaaggata tgagctaagc agtgacaggc 1020  
tcaactgtga agacattgtat gaatgcagaa cctcaagcta cctgtgtcaa tatcaatgtg 1080  
tcaatgaacc tggaaattc tcatgttatgt gcccccaggg ataccaagtg gtgagaagta 1140  
gaacatgtca agatataaat gagtgtgaga ccacaaatga atgcccggag gatgaaatgt 1200  
gttggaaattn tcatggcgcc ttccgttggt atccacgaaa tccttgcata gatccctaca 1260  
ttctaacacc agagaaccga tttgtttgcc cagtctcaaa tggcatgtgc cgagaactgc 1320  
cccagtcaat agtctacaaa tacatgagca tccgatctga taggtctgtg ccatcagaca 1380  
tcttccagat acaggccaca actattttag ccaacaccat caataactttt cggattaaat 1440  
ctggaaatga aaatggagag ttctacctac gacaaacaag tcctgttaagt gcaatgctt 1500  
tgctcgtgaa gtcattatca ggaccaagag aacatatcg ggacctggag atgctgacag 1560  
tcagcgtat agggaccttc cgcacaagct ctgtttaag attgacaata atagtggggc 1620  
cattttcatt ttagtctttt ctaagagtca accacaggca ttaagtcag ccaaagaata 1680  
ttgttacctt aaagcactat ttatttata gatatatcta gtgcacatctac atctctatac 1740  
tgatcagatc ttgtgagact tattcaatc cacaacaata gtatggggga aactgcccc 1800  
atgattcaaa ttatctccct cccacaacac gcgggaatta tgggagatca attcaagagg 1860  
cgatttgggtt ggggacacag ccaaaccata tcagttata ttagtcacat ttctttgt 1920  
gatgtggatc ttgggggtg ggggacacag cggggactg attttttga gttgggtggta 1980  
gagcctggtc gtcagggaaag accacatagg ggtgcacat aaactatgac ttcaagatg 2040  
gaaaggaatt cccagatcat gcaatgttggg aagggactt gttggcaaggc ccctgcacatgt 2100  
gtgaaggcat gggacaggag agactatcac ttgttattgtc ttgggttctt ccctccctt 2160  
ccccccgccc ttgcctctgt cccaggatc cactggggct aaagggtatgt cctggggccc 2220  
agactgctag aggagccatg ctacagggtc tggtcagcac ccccacatgtc ctccctgacgc 2280  
agagagggtgg agaagctcat gggtcagcac tgggcttggc tggccatctg aggccctgca 2340  
ctgtggccag catgaatgt ctatgggggg ccacatgtc gacatgtttag aactcttctg 2400  
ggagggggcgc tcttgaccct tctggagagc atgtggggaa gcagaggagc tgctccctta 2460  
agccaggagg agctgtgtc gaggatgttta ttgggtgaga gttgtgtcca acaccaatga 2520  
tctttaaatg aactgagtc tagactgtc cggaagacta gaacttaggc cccgggttgg 2580  
gactgcaggg agtgcattata gttgacatcg gacaggcag ctccgtttagg aaggagtgtc 2640  
acctgcactg ggaagggtcc aaggaagagg ttgcctgcct tagagaccaa gtaccctgtat 2700  
aggccagcat caggctggcc tagtacaaag atggctcgaa agcgccccca gggaaatgtg 2760  
cctccaacaa atcgaagtgg ataaaaaggg caggacactc taatgagcac cgggcactct 2820  
ctagacatct ttttcagatt cccctcgct atgaggcagg tctgtctcca tcttgcatgt 2880  
gagaatctca gtgaggaggat tcaggatcac acagccatg caggactctg gtgccgcgc 2940  
gtctctaaag cccaccgttc aaccactcgc ctgtgcgtc agagaggctg gtggaaacctg 3000  
cgggatttctt ggaaggggag cctgagagag ctgcagaagg gcgaagactg tca 3053

<210> 48  
<211> 560  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1440015CB1

PF-0701 USA

<400> 48

cccacgcgtc cgcccacgca tccgaaaagg atcgaaggca gccccggagc ccagcgccg 60  
ggaggcgccg cccaacgaag ccgcggcccg ggcacagcca tggcccgccg ggccccggc 120  
gctcgatgt tcggcagcct cctgctctc gccctgctcg ctggccggcgt cgccccgctc 180  
agctggatc tcccgagcc ccgcagccg aagaagatc tccgagtgca ctcgcaggc 240  
aacctctggg ccaccggta cttcatggc aagaagatc tggaggcttc cagcccatcc 300  
ccattggga cagctccca cacctccctg agggaccagc gactgcagct gagtcatgat 360  
ctgctcgaa tcctctgtt aaagaaggct ctggcggtga getcagccgc cccgcacccc 420  
aaatccagta caggaggctg ctggatcaa tacttgca aatgacacca ataatggggc 480  
agacacaaca gcgtggctt gattgtggcc aaccccaggg aaagggtgt aattggaaac 540  
cttgttgaat gggccccatt 560

<210> 49

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1652885CB1

<400> 49

ctcgagcgccg gggctgtgc tgaaggcca ggaggccagc aggaagacca gctctccgcg 60  
gtgagtgtgt gtcccatccc catatcacca ttgcctctac ttgggttagt acttgtgctc 120  
taggttctga tacttctct ggctccaag gttgtcatta ggtcctcaca tctgaggaaa 180  
tggttccgcg gctcctacc acttgcctctt ggaaggccagt ccctccctt tgtgacttac 240  
gtgtccaggg tattgcccc tcttccttcc ctgatacccc cttggcacag gaggaagaca 300  
gcgaaccctt cccaccacag gatgcccaga cctctgggtc actgttgac tacctgctcc 360  
aggcaatgga gagacccggc cggagccaag ccttcctgtt tcagccccag aggtttggca 420  
gaaataccca gggatccctgg aggaatgaat ggctgagttcc cccggcttgg gaggggctga 480  
atccccatgt ctggagccctg gctgccttcc aacgtttgg gaagaagtga catgtcatcc 540  
cttgatatgt ctgcatgca ggtccacacc caaaagtgtc aatgtttgcc ccccaaataa 600  
aattgtctgg ctt 613

<210> 50

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4003984CB1

<400> 50

cctggaccca agctccagcc aaaaaggccctc tctccctccac tcaggctggg aggttgcttt 60  
cttaggagctc agatgcaaa ggtggacact gtgggctgca gccttcctga ccctccactc 120  
tgcacaggcc tttccacaaa cagacatcag tatcgttcca gcccggccag agctggccct 180  
gccttcctgt tgcccccgt tctggatgca gttcaaaggc cactgctatc gattcttccc 240  
tctcaataag acctgggctg aggccgacct ctactttctt gagttctctg tgggcaggaa 300  
gtccgccaag ctggccctca tccacagctg ggaggagaat gtctttgtat atgacccgt 360  
gaacagctgt gttccggca tcccagctga cgtctggaca ggccttcatg atcacagaca 420  
ggtgagaaag cagtgccat tggcccccctt tggaaagctcc agccaggatt ctatttgtat 480  
ttaataaact tttcacatca gtgccaggc acggctatgc acacagcata tagagagaaa 540  
tcagacacca agatgtcaca gttacagcat gaccaattt gtaaatgtat 600

09062020 - 09062021

PF-0701 USA

cctactaaat gatgggaaca gatagcatgg tcagagaaaa cctgtttggc tggga 655

<210> 51

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4365383CB1

<400> 51

ccaggccccaa gcttccccac catgaatttt gttcacacaa gtcgaaaggta gaagagctta 60  
aaccccaga aattcagcat tcatgaccag gatcacaaag tactggtcct ggactctggg 120  
aatctcatag cagttccaga taaaaactac atacgcccag agatcttctt tgcattagcc 180  
tcatccctga gctcagccctc tgccggagaaa ggaagtccga ttctcctggg ggtctctaaa 240  
ggggagttt gtctctactg tgacaaggat aaaggacaaa gtcatccatc ctttcagctg 300  
aagaaggaga aactgatgaa gctggctgcc caaaaggaat cagcacgccc gcccttcatc 360  
tttataggg ctcagggtggg ctccctggaac atgctggagt cgccggctca ccccgatgg 420  
ttcatctgca ctccttgcaa ttgtaatgag cctgttgggg tgacagataa atttgagaac 480  
agggaaacaca ttgaattttc atttcaacca gtttgc当地 ctgaaatgag cccagtgag 540  
gtcagcgtt aggaaactgc ccattgaaac gccttcctcg ctaatttcaa ctaattgtat 600  
aaaaacccca aacctgctca ctaaaaaaaaaa 630

<210> 52

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5497814CB1

<400> 52

gcccttcctg tccccaccat gtctgtcttg cctctgtgcg tcctgcccact tctgctggcc 60  
tcctgtcac acctgtccac ctccctctgg cctcccaagcc ttgcattgtt cttggaaaca 120  
ttgggttggaa ttccatatttag cccggcaccgt agccttggcc tcatccctgc cccacgggtgc 180  
ctgcccccttc cccgctgcaat ccccaacttct ctctgtctc caccattcca cagcctgcat 240  
tcccttacccc gatgcctct gctgaaaggta ctggccatc cacaggtggc atggtaagg 300  
cagcagccac tgcactttac ctctgccaat gaccgtcatc tctccaaggc ctgcctggc 360  
tgcagcttgtt attccagtga cagcctgggtt gcatttaga gaccctccc ttcagggtgt 420  
tgagaaggcg gcagcgttcc catgtggaa aaaggaggag gagggtgtt tccttcttac 480  
tgtctctgag cagccccggcc c 501

<210> 53

<211> 179

<212> PRT

<213> Cervus elaphus

<220>

<221> misc\_feature

<223> Genbank ID No: gi511295

<400> 53

PF-0701 USA

Met Pro Ser Ser Ser Ala Leu Leu Cys Cys Leu Val Phe Leu Ala  
1 5 10 15  
Gly Val Ala Ala Ser Arg Asp Ala Ser Ala Pro Ser Asp Ser Ser  
20 25 30  
Cys Thr His Phe Ser Asn Ser Leu Pro Leu Met Leu Arg Glu Leu  
35 40 45  
Arg Thr Ala Phe Ser Arg Val Lys Asn Phe Phe Gln Met Lys Asp  
50 55 60  
Gln Leu Asp Ser Met Leu Leu Thr Gln Ser Leu Leu Asp Asp Phe  
65 70 75  
Lys Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe  
80 85 90  
Tyr Leu Glu Glu Val Met Pro Gln Ala Glu Asn His Gly Pro Glu  
95 100 105  
Ile Lys Glu His Val Asn Ser Leu Gly Glu Lys Leu Lys Thr Leu  
110 115 120  
Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu Pro Cys Glu Asn  
125 130 135  
Lys Ser Lys Ala Val Glu Gln Val Lys Ser Val Phe Ser Lys Leu  
140 145 150  
Gln Glu Arg Gly Val Tyr Lys Ala Met Ser Glu Phe Asp Ile Phe  
155 160 165  
Ile Asn Tyr Ile Glu Thr Tyr Thr Thr Met Lys Met Lys Asn  
170 175  
  
<210> 54  
<211> 193  
<212> PRT  
<213> Macaca fascicularis

<220>  
<221> misc\_feature  
<223> Genbank ID No: gi1841298

<220>  
<221> unsure  
<222> 179-193  
<223> Xaa is unknown

<400> 54  
Met His Ser Ser Ala Leu Leu Cys Cys Leu Val Leu Leu Thr Gly  
1 5 10 15  
Val Arg Ala Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys  
20 25 30  
Thr Arg Phe Pro Gly Asn Leu Pro His Met Leu Arg Asp Leu Arg  
35 40 45  
Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln  
50 55 60  
Leu Asp Asn Ile Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys  
65 70 75  
Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr  
80 85 90  
Leu Glu Glu Val Met Pro Gln Ala Glu Asn His Asp Pro Asp Ile  
95 100 105  
Lys Glu His Val Asn Ser Leu Gly Glu Asn Leu Lys Thr Leu Arg

110                    115                    120  
 Leu Arg Leu Arg Arg Cys His Arg Phe Leu Pro Cys Glu Asn Lys  
 125                    130                    135  
 Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe Ser Lys Leu Gln  
 140                    145                    150  
 Glu Lys Gly Val Tyr Lys Ala Met Ser Glu Phe Asp Ile Phe Ile  
 155                    160                    165  
 Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn Xaa Xaa  
 170                    175                    180  
 Xaa  
 185                    190

<210> 55  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Genbank ID No: gi|06805

<400> 55  
 Met His Ser Ser Ala Leu Leu Cys Cys Leu Val Leu Leu Thr Gly  
 1                    5                    10                    15  
 Val Arg Ala Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys  
 20                    25                    30  
 Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg  
 35                    40                    45  
 Asp Ala Phe Ser Arg Val Lys Thr Phe Gln Met Lys Asp Gln  
 50                    55                    60  
 Leu Asp Asn Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys  
 65                    70                    75  
 Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr  
 80                    85                    90  
 Leu Glu Glu Val Met Pro Gln Ala Glu Asn Gln Asp Pro Asp Ile  
 95                    100                  105  
 Lys Ala His Val Asn Ser Leu Gly Glu Asn Leu Lys Thr Leu Arg  
 110                  115                  120  
 Leu Arg Leu Arg Arg Cys His Arg Phe Leu Pro Cys Glu Asn Lys  
 125                  130                  135  
 Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe Asn Lys Leu Gln  
 140                  145                  150  
 Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp Ile Phe Ile  
 155                  160                  165  
 Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn  
 170                  175